growth in

poly courses

A 3.5 per rent growth in the num

A 3.5 per rent grawth in the num-ber of people starting full-time and sandwich courses in polytechnics this year, was revealed in figures released by the Committee of Directurs of Polytechnics this weok. There was a 7.5 per cent increase in science, technology, and mathe-matiles conquired with last year, and a 6 per cont increase for all other subjects oxcluding leacher fixed-ing.

This is the first time since the

CDP surveys began in 197.1 that the greatest growth rule has accurred

unities.
In the 1977/78 academic year there hare been 117,000 full-bate and somiwich envoluteurs compared

The Open University's South Alri-can operations are cousing its staff concern. Questions are to be usked about its involvement in providing academic numerial for students in South Africa, through its subsidiary

Marketing company.

Academics ere concerned that the marketing division, Open University Educational Enterprises Limited, is dispatching thousands of conies of course units to South Africa via its distributor in the southern

hemisphere.

The Open University Council, which controls 100 per cent of the shares in OUEE Limited, has asked the company's board to look at the issue, which it was scheduled to discuss the measure of Medicardon

discuss of a meeting on Wednesday.
The university already operates
a hair un official visits by South
Africans to the campus at Milian
Keynes

Next atouth the issue will be raised at a meeting of the senate. Dr Smart Bennett, president of the OU branch of the Association of University Teachers, will be asking what steps have been taken to halt made with South Africa and whether the export of academic material has now coased.

This follows a senute decision in

This follows a senute decision in may, when it mus agreed it would do all in its power to ensure that that the with South Africa ceased. The decision was passed on to the OU Council, which in turn referred the matter to the board of OUEE Limited. The AUT at the university is concerned that academics should be unintentionally contravening the terms of a resolution adopted nationally by the association in 1972.

Expressing its abhorrence for the policies of aparticul at that time the AUT called on its members not south African universities which caudoned rariol discrimination. Since them, the AUT has taken up the cases of individual academics in South Africa who have been imprisuned without trial.

interisance without trial.

The export of Open University course material to South Africa first came to light in a saif oragazine published by OUEE Limited. An article last outurns spothished the sale of mathenatics course units to students taking correspondence to students taking correspondence courses through the University of South Africa.

Between 15,000 and 25,000 units were being sold annually, the magazine recommending its students to buy the prescribed Open University hooks arcumpanying the course units.

Science leads

The magazine pointed out that the University of South Africa had 14,000 students, of whom 10,691 were black.

were black.

A spokesman for the Open Dulrersity such this week that ODER Limited had a contract with United Book Distributors Limited, which bundled the university's material in the southern bemisphere. The contract would come up for renewal shortly, he mided.

Chemical industry complains of 'too academic' graduates

The universities' ocadenic complusis was unsultable for graduates who wanted careers in industry. Mr Peter Tiso, a refinery manager of Sholl UK Oil Ltd, askd on Tuesday.

graduatos into high-grado technologists."

It was a common view of freshly recruited chemleal engineers that while choir education in the basic principles was fully covered by the universities, too much attention was paid to research and to academic orientation, not enough to demonstration, not enough to demonstration, not enough to demonstrations of practical aspects.

Mr. Tiso also complained their chemical engineering was for too many n second-best choice, the result of fullure to get into another field; "I doubt whether industry is estimating high quality graduates and whether the courses are attracting high quality schoolboys." He urged industry to make itself more attractive to the highly qualified.

The idea that scholarship was an inappropriate education for engineers was vigorously refuted by Probably University's department of engineering: "A university is first and foremest about scholarship. If we are to motivate students wo have to offer an intellectual challond."

Attacklus leitantant.

TUC hopes for Fircroft role

conlinued from page 1 The proposals put forward for the throo types of courses to be their patients is to be underinken by a starting point for the governing body.

A study of the way doctors troat their patients is to be underinken by a research teem at the University of Maijchester. The project, bicked by a statement of the project, bicked by a statement

my heart to hear industrialists tell-ing highly qualified entrants to 'for-ger all that' in reference to their education, I would like industrialists to use the brightness we are form-

Shell UK Oil Ltd, asid on Tuesday.

He told n conference of academics and imhustrialists jointly organized by the Society of the Chemical Industry and the Institution of Chemical Eugineers: "The tannellute object of industry is to convert graduates into high-grade technologists."

It was a common view of freshly recruited chemical engineers that

tical can blunt the edge of the interested in their subject than io people or the environment. He thought it was time solvething was dane to calarge their view of life,

A study of the way doctors treat

Way to a better

bedside manner

ing point for the governing body, Mr jackson cuphasized.

The appointment of e principal and the possible reinstatement of the excked tutors were all mosters for the governing body.

sity of Maijchester. The project, backed by e £14,000 grant from the possible reinstatement of the Social Science Research Counting and rubbinshed by Three Newspapers the Social Science Research Counting and Published by Three Newspapers of the governing body.

sity of Maijchester. The project, backed by e £14,000 grant from the social social Science Research Counting and Published by Three Newspapers of the governing body.

Colleges can ease recruit curbs with fixing of RSG anthority discretionary. 2.5 ther cent increase are when spending on Mrs Williams unurils amounted to the Mrs Williams

Lucal authority polytechnics and colleges will be able to relax their present restrictions on staff recenit-

present restrictions on shall recruitment next year as a result of the
rate support grant settlement has
tween the Carrenment and local
councils announced last week.

Mrs Shirley Williams, Serretary
of State for Education, said this
settlement for 1978-79 recognised
that local aothorities had mored a
long way towards achieving the
flower stoff-student ratios implicit
in the last Walte Paper on public
spending.

Hunder the tate system, the Goyerne
loover to cusure that
to lucal rouncils is
spending.

spending.

"But with numbers still vising, particularly in nun-advanced further education, we have allowed for leacher numbers to rise from the next academic year in line with the increase in the student population. That will make it passible to maintain staffing standards in existing levels," evels,"
Mrs Williams said the chaoge in

policy meant that an extra 2,000 crease of about 10 proceed though the bulk of them would be involved in non-intraperal to the bulk of them would be the bulk of the bul

But a spokesman for the Council of Local Education Authorities, said polytechnics would still be required to move towards the more extended stuff-student ratius recommended by the local authority higher education modities committee. pooling committee.

The RSG settlement also contains an extra £1.801 allurated for lacal

Lecturers could earn £10,120 if value maintained

University lecturers would be caruing a maximum of \$10,120 if the salary levels awarded them in orbitration were brought into line with prices and earnings. Miss Markared Juckson, purliamentary undersecretary of state at the Department of Education and Science, give the figure in a neither parliamentary unswer to Mr Rhodry James, MP for Cambridgo.

An arbitration award in 1975 area.

and sandwich enrolments compared with 11,000 last year.

Mr Puter Plowerdoy, the CDP secretary, said that after comments made by registrors during the year about the level of applications received, the almost expected the growth to have been higher.

The growth ros due to population growth, student choice, ead the indeterminate number of young people who might formerly hove onted for teacher training choosing polytechnics.

where the properties of the pr

A 125-year-old Anglican teocher raining college at Culliani, near Abingdon, moy became Britain's first European school for the children for of top schedists and burgant a school for up to 400 children whom a school for up to 400 children whom it coases training teachers in 1979—18 to be considered next mouth by schools for the EEC.

oresees sharp frop in intake

December 2, 1977 No 317

The settlement assume than fees will rend to mis a set you in real terms, aext you The DES is coming uses.

The DES is coming uses, in prossure to retieve the prossure to retieve the parts of thirtion fees, loss shows in the House of Canada.

Accounts Committee to be ment, the Trensury and the season system should be shown the fees system should be shown that the fees system should be should be shown that the fees system should be should

power to ensure that to local rouncils is inems to which it is a cuted. But Mrs Will

arrards next year,

Careers advised in a lecture at Dirkbeck College,

urge better lilks denote, on Wednesday she said demographic changes might push up higher education demand in the laxt five or six years ond might sep ir up throughout the 1980s, there is a vital sed improved understanding the decided. The number of 18-year limitstry, universities as a would reach its peak in 1982, occording to a recent result like drop at an increasing rate of

Industry, universities and the second reach its peak in 1982. occording to a recent reach the drop at an increasing rate of mivisory board to the large set suid 1994.

Tersity careers service to be the set of the pears homediately nhead presented a ronge of problems for remove student projudes before education but they should a curear in industry, says to be too armie. The public server resulty of London's is a England and Wules faced the Advisory Board. And, it refer task of diversification to the industry must learn to project seke of the reduction in the total better.

In its sixty-seventh.

'Defend academic freedom' call to OU

THETIMES

SUPPLEMENT

by Judith Juld

A motion calling on the Open University to defend productic freedom in the wake of Professor Indias Gould's attack on Marxist influences in higher education is to be purple before its senare.

March to hear how much money they will linve to spend to the arudemir year 1978-79.

The University Grants Committee had hoped in he able to indicate this mouth individual shares of the provisional recurrent grant of 1555m amounted by Mrs Williams,

The ilclay has been raused by the Guyerument's decision to increase the number of students in 1980. Mrs Williams anonunced

wait for next

year's grant details

Attack on Higher Education, edited by Professor Goald and published by the Institute for the Study of Cauffirt.

Senate will debate the motion on December 13. If occepted, it will go forward for consideration by the consell.

before its senare.

A shollar outsing incorporating a complaint of a McCarthy-style rampaign against oniversities in general ond the OU in particular is going to the council of the Association of University Teachers in there for its December meeting.

Both stem from a meeting of the OU branch of the AUT when are ranking within a Marsist in a marked from a meeting of the OU branch of the AUT when are ranking within a Marsist in they are working within a Marsist in a marked from the meeting of the AUT when are ranking within a Marsist in they are working within a Marsist in protect the reputation and the meant of the text meeting of its in protect the reputation and the meant of the meant of its prover in the meant of the mea

Universities have to London polys to fight

she also announced pravisional totals for the following two years. For 1978-79—at constant prices—the total was £556m, £6m less than this year.

staff shuffle

Narth London (PNL)—intend to oppose the ILEA initiative, which is designed to free staffing testurces tions about wage increases used to

calculate this year's grant were much too optimistic. In the present industrial relotions elimate no grant of workers is likely to settle for loss than the 10 per cent limit.

Assuming there will be an increase to compensate for this The proposal, which has not yet been debuted by the northerly's elected members, is given in a lener to all five polytechnic directors from Mr John Bernn, the depoty education officer. It calls fur North London to give up 22 posts, South Bank 15 and Thaines 9, the reductions to be made over the two years September, 1978 to July, 1980. Assuming there will be in furenset to compensate for this shortfall of about 5 µrr cent, and that 15 µrr cent for wage increases next yoar is included—quite possible in ricw of the promise to the promi rectly the university tenchers' pay anomaly—the provisional total of £556m would have to be incroused by as much as £95m.

it says: "Do the assumption that we might have about 23 positions to reallocate in the course of the first year, my proposal is that 18 five in the Polytechnic of Central

Polyicchnic directors have been taken plack by the letter. The idea polyrechnics was discussed for the first time at manual grant negotia-tions last month. Afterwards, directors described the discussions as preligiously and informal.

as preliciously out informal.

Dr. D. E. R. Godfrey, director of Thames, said this week that he had written to the H.E.A osking them to think ugain about the plan. He went out: "We are very disappointed that the H.E.A is osking as to push much ower rapidly towards these ratios than we would like. We will certainly have considerable difficulty in giving up three posts: all our staff ore fully enablated."

At the PNL, which would lose 22 posts, the resources committee was expected to discuss the ILEA letter yeaterday. But Dr. Norbert Singer, an assistant allocator, said the directorate objected very strongly to the inched the 1f.EA laid assist to culculate numbers.

"The more worrying assistant is be, freed from State

"The most worrylug aspect is that it was mentioned at our block the written parliamentary answer to obtain posts this yeer than last two other colleges and the 1972 White Careers Advisory Servicos.

Polytochule graduates bad greater difficult than their university connecting the public sector institutions.

Polytochule graduates bad greater difficult than their university connected in the polytochules. Figures compiled for taching posts this polytochale graduates bad greater difficult than their university connected in the 1972 White polytochule graduates bad greater difficult than their university connected in the 1972 white polytochule graduates bad greater difficult than their university connected in the 1972 white polytochule graduates bad greater difficult than their university of their 1976 graduates who entered PGCE courses that untimot. The make replications of itself in the polytochule graduates by the sable replies received was 2,858. Of that to is only 2,379 make of the 2,379 did not premises, he said.

A total of 482 of the 2,379 did not premises, he said.

A total of 482 of the 2,379 did not premises, he said.

The five obtains male mote than 184 per cant of these apply of sachol 20.3 per cent of these apply of sachol 20.3 per cent of these apply of the premises of the



Contents

Modernism

Michael Long discusses a new collection of essays by Gabriel Josipovici on Modernism, the early 20th century revolutionary imprement in the arts, 15

Robbins was wrong

Lord Todd still believes the expansion of the universities was a mistake, he explains in our series on men who moulded the 1960's, 9

Richard Hoggart

Maggie Richards talks to Richard Hoggart about his new job as chairman of the Advisory Council on Adult Education, 11 OECD report on education and working

Students in conference

Peter David sets the scene for this weekend's conference in Blackpool of the National Union of Students, 10

The Institute

The London University Institute of Education's new building will be opened next week by the Queen Mother, 9

be, freed from State control, 13

North Amorlean n	eves	-
Oyersons news		
Don's diary		
Notice board	•	
Leiters		1
Books	1, 1, 1	15-2

F ر ځ ,04 8

The report, campiled by Parline Kirk, a partition tubor, counsellor and course tubor with the univer-

and course tunor with the university, says the evidence suggests that the (tpen University has not sufficiently recognized the unumulaic effects that studies can have had ea students and on their families. It quotes the comment of one sudent who complained: "The tipen University is concerned with die disabled or abyloosly disadvantaged students but . . . it does not really begin to recugnize murital and family stresses."

The family that studies

together stays together

APT extends its recognition

gains to Northern Ireland

Students' unions 'essential'

some start week.

Speaking in an odjournment debate, Mr Moonman claimed that the Socialist Workers' Poety, Arab students end extreme right wing sympathizars had attempted to ban Jewish societies on the grounds that thay were Zionist and therefore racist.

Jewish societies on the grounds that thay were Zionist and therefore racist.

Mr Oakes, Minister of State for Education end Science, stated that ettempts by perticular groups of studenta in universities and polytechnics to deprive other groups of democretic freedoms simply because they did not happen to agree with their views could not he tolecsted. Mc Oakes sald he utterly deploced ony attempt to deny freedom of speech, or freedom of association, particu-

Tha Association of Polytechoic Teochers has won onother battle in

Recognition was granted by Lord Melchett, Minister of State for Education in Northern Ireland, after a meeting with an APT delegation led by Mc Devid Clement, chairman of the local ossociation. By the end of the year the union could have achieved cecognition in five polytechnics.

Bangur oud Swansen Universities.

He complained that students were being intimidated and almost, and prevented from collectively forming sucleties as members of the lewish faith. The extremists were now likely in extend their campaign to isolate "the blucks and the frish as well"

Mrs Heather Eggins, secretary of

the local association, said the view that ocademic suff should have

With reference to a paper urghing but warly rethreatent should be

A campoign of "dirty tricks", hacked by a large sum of money, is behind moves by several student unions to deny the use of focilities.

Mr Eric Moonman, Labour MP foc Basildon, told the House of Coonmons last week.

Speaking in an odjournment debate, Mr Moonman claimed that the Socialist Workers' Poety, Arab students ond extreme right wing sympathizars had attempted to bao Jewish societies on the grounds limited the students were being intlinidated and almost, and Jewish societies on the grounds few in the Jews in the Jews in the same of carnary against the Jews in the same of synthesis and mour sacrity.

Such restrictions could have no place in our sacrity.

Such restrictions could have no place in our sacrity.

Air Moonman listed events at york and Salford Universities, the School af Oriental and African Studies in London, the North Landon Polytechnic, the North-East Mr Michael Font, to custore university charters were being athered to. The Serretary of State, Mrs Williams, also had o responsibility in that the DES had influence over the financing of students and provented from collectively forming.

The Lord President of the Council was responsible for university charters and ha would ecrtainly charters and ha would ecrtainly crasult from but Mr Oakes thought the exidity of a rharter could be tested in the courts before Mr Foot became involved.

But he relyed is the matter with

But he asked if the matter might not be resulved much more satis-farmely than being dragged before derial interest in an issue which only cause discredit should the courts. It might be better if the allowed to fester.

Mr Cakes said ministers had no mistukes comulted by a tiny perpowers to intervene in the conduct centage of their own membership.



Further education students watch a technician apprentice completing a technical drawing at the "Curcers for 78" exhibition.

rould have achieved ecognition io five polytechnies. The APT already has full union stetua in Huddersfield Polytechnic and further recognition could follow referenda at Lancester, Portsmouth and North London polytechnics. The Ulster College delogation presented the minister with a number of papers and further negations are to take place on amendments of logislation governing the structure and administration of the college and on premature rotrament. With reference to o poper urging that the arriver cannot should he avoidable to all those who want in the minister who that when the awdighted that when the awdighted that when the awdighted that when the awdighted that the minister sold that when the awdighted that the minister who that when the awdighted the secondary response to the minister with a number of papers of the minister with and the weight that when the avdighted that the will have called the who that when the avdighted the and the will have called the the minister with an unit of the minister with a minister with an unit of the minister. The APT already he full the addighted the minister with the minister with the minister with the minister with the minister Problem of youth's attitude to industry still remains

Young people's artitudes to ludustry and continers attitudes to linking try and continers remained a seri-ons problem despite efforts to hildge the gap between education and employment, Mr Oakes, Alluster of State for Higher Edu-cation, said at the "Careers for 78" exhibition in Manchester this work.

Ç

R

Students' unions were "essential and effective" in providing olements of education which could not be left to academic, according to Mr David Bethel, uest yes's chairman of the Committee of Directors of Polytechnics.

In this wake of criticism of students' unions for their leck of public accountability the director of Electron their leck of public accountability the director of the committee of Directors of Polytechnics.

It olso had its own committee, and diploma eward ceramony last week to defend their achievements. While accepting that soma of the criticisms ware justified, he said they could offer a "valuable education for life". The undergraduate experience did not only consist of academic development. It had to be seen together with the maturing of other qualities required of human beingts in a democratic society which respected the dignity of the individual and yer worked for the common good.

"Academic staff are not emanged, nor do they have any special" shifty, to devalon the funding and described the funding the funding and described the funding and described the funding the fundin

chers, employers and teade union-ists and should be sut up in every

The added that It was also ex-

do they have any special shifty develop these important gredients. In this polytechnic is funding and organization of the students unito, les organization of the students unito less that the students of the students unito less that the students of the students

has been in West Gecunuty this week supporting a campaign by the Verhand Deutscher Students chapter — the German students union — to fight a federal government move to cut ite funds

Lampeter may find it is difficult to attract states ing to its principal by it in his normal report by that, though the college had other amenides to runge of courses and the multi-fuculty university.

The college has exactly

Itot compete with that a minitifuculty university. The college has snow the cutoring occommodales with the 700 student sale the University Grant of 1980-81, an iocrass will not succeed in amount of the surface of the the report appears in the November edition of Tenching at a Distance, a magorine on distance learning techniques published by the Open University.

Paullue Kirk began her study after writing an arricle in the Olisandent newspaper Sesame about the opposition women students the opposition women students sometimes encounter from their husbands. This provided considerable controversy, and led to the collaion of evidence from students. Based on the evidence collected, the report outlines practical measures to minimize the effects of tension. Prospective students should be given more worning of the implications of taking a degree course, in sors, suggesting intervious to make says, suggesting interviews to make then fully aware of the problems. Tutor counsellors and course miors should olsu be briefed obout

ment persisted to its war-meding a further persist session of 1978-79, there of to be on angry respons in well have to foce suder tion for which we have tion and connot be held responsible."

responsible."
Turning to academic skill staff had a griesman universities had not used could do nothing to skill their unaided alforts.

University teachers his appearance of the country teachers his proposition. nuch ground convert

tor that they were emission der whether the county at placed unvilling like the value on their qualificate while they are still still the while they are still still the while they are still still the whileh should have been end in 1975, they are belog the arcent less favourable military.

Older universities feel pinch on building

Restrictions on building their miss problems for older units like Liverpool, Profesor like Whelan, the university which cellor says in his annual rest the court.

Some of our buildings are het ween 70 and 100 pers of he het resident to the court of the

in some cases we have lating of new equipment he petunic in use building with our larger economic to our repair and which cannot keep adapted to departmental out and frustration to the economic climate of the economic climate of the country of th

the fess for undergraduates and fess for undergraduates and fess for undergraduates, while hame students normally pay £500 and trees and the fess fine fess for undergraduates and fess for undergradu

home opplicants who happen to have spent loughly periods oversoas on lowed to use their discretion to haliday or voluntary service.

NUJ strikers aid newspaper

The latest edition of the Durham be used to train junior journalists University students' newspaper has been produced with the help of some of the lournalists on strike becouse of the strike.

Support of the closed shop in larington.

Menhers of the National Union of Jaurnalists supported that the result was staff for a week and the result was staff fo of Jaurnalists suggested that the n paper with a new layout and four students, poper Palginate should extra poges.

Fight to keep counselling unit starts

hate started a campaign to preserve and expond the education control ling unit there. They text the university is trying to run down the unit, which has persuaded dozens of students not to heave course since it was set upon 1963.

the Open University is not doing complete combat the stresses that study imposes on the marriages of it, students, according to a report The university decided last year The report finds that financia conflict: "Unoks, equipment and travel costs must all be found from the family budget. Rival claims upon the family's income make the sendent doubtful of the validity of his or has condict and other moncoase after its research grains came to an end. Now it is proposing that the unit's only remaining academic. Dr. Janisław Wankowski, should b transferred to an affice in the edu his or her studies, and other mean bers resentful of the financial sacri This week the university's largest

for tertiary

faculty, science and engineering, passed a motion supporting adoca-Married women with young child-ren are particularly voluerable be-cause they cannor earn extra money to pay for their courses, the report 16-19 role

says.

"Though well provided for in all else, they are hardship cases as for as payment of fees is concerned. Yet how thes a woman in a middle-class area, driving her own cor, with an appearance of affluence, prove hardship?"

schools in certain cases.

Even if the university's own oren sures for assisting disadvantaged students help prevent withdrawal, the tensions resulting from rival ouncetury claims must influence results, the report argues. And it points out that the gradual increase in man-professional applicants is likely to mean an increase in the dropout rate due to financial hard-

Greater resistance to Government pressure to roise fees is needed, alongside ogitation for grant aid, the repart cancludes. the sort of domestic prublems stu-

The Tip of the Iceberg: Some Effects of Onen University Study on Married Students, by Pauline Kirk. Published by Teoching ot a Distance, Regland Tutorial Services, The Onen University, Milton Keynes. dents may encounter and how to identify them before the situation becomes neute, the report says. Greater emphasis on the importance of frequent contact between counsellors and students after their list year is urged.

That foreign trip could turn into fee rise nightmare charge the home rate of fees for students newly classified as "specified". But he said that there might he "the add authority which sticks to the letter of the law".

College admissions staff, however, doubt whether local authorities will he able to exercise their discretion without infringing the Race Relations Act. Mr Goorge Kiloh, academic registrar of City of London Polytechnic, said: "The problem is that the DES cannot have its cake and can it. It had to change the definition of overseas students to protect colleges from the Act.

"It connot changa its usual now and tell authorities to go back to the old definition of overseas students", such students will have lost danger of infringing the Act. I do not really see much scope for local education authorities to exercise their discretion."

Even if college nuthorities agree to charge the hanaa fee rate for newly designated "specified students", such students will have lost their right to a mandotory eward from their home l.e.a.s.

The new deficition of overseas students will also throw into disarray plans to place quota restrictions on overseas student intakes.

by Peter David Thousands of Hritish school-leavers sho spend more than nine mouths overseas before applying to universities and pulytechnics may be

sities and pulytechnics may be required to pay oversons student fee lavels when they ceruru.

The Department of Education and Science confirmed this week that a loophole in a circular Issaed in August means that students win have holidayed abrond or done voluntary service oversons for more than that months full into a special cargory of "specified" students liable in pay higher fee levels and to resteletions by college quotas on oversons studenta.

Under circular 8/77, designed to protect colleges from contravening

order circular \$777, designed to protect colleges from contrivening the Race Rolations Act, overseas students are relitled specified students and defined simply as these who have not been resident in the United Kingdom for more than three years immediately prior to taking up a course in higher education

Temporary absences from the tountry dissentes from the country ore illsregacded so long as they do not odd up to more than diss months of the three-year period. Many British school leavers who spend extended periods neerwho spend extended periods neerwas before applying to a university
or college will therefore forfeit their
designation as hoose students.

They could than he required to
pay higher fee levels and hostel

Fales, and local students, and to the students.

Tales, and lose their right to auto-matic mandatory awards from locul suborlies. The overseas fee levels

to revise the circular. A spokesman pointed out that under his terms of a nuthorities and colleges are allowed to revise and colleges.

might well have a major role to play in 16-19 age-group chication, Mr I. Thom, assistant secretary at the Science, said this week in Landon.
Speaking at a seminar of the Educational Systems Study Group and the British Educational Administration Sucley he soid ulthough such colleges were not the immediate miswer, they would have to be con-sidered by local education outhori-ties when they faced rationalization as a result of the drop in student

Sixth forms and tertlary college

fewer schools and they might nor be olde to make adequate provision for the 16-19 oge group, and tertiary colleges and sixth form

colleges cauld prove an onswer.

The demand already existed, as wa: shown by the increuse in the nomber of young people taking A and O levels in further edocation institutions. Between 1976-77, 34,000 studied A levels in comparison with 15,000 in 1973-74.

Better pruvision for 16-19 year olds could also be achiaved by greated cooperation between further education colleges and schools. He soid lucal outhorities should see what they had in terms of buildings and teachara and how these could be deplayed to meet the needs of 16 to 19-year-olds.

But Mr D. C. Vonvell of the linner Landon Education Authority printed nut that cooperation between schools and culleges did exist in his area. Their scheme for the 15-17 year olds which hod began a year ogn was now being exposted in encompass two more schools and

tion cromselling. Last week the faculty of law voted that education counselling should be retained as

The university has already agreed to appoint an independent assessor to body into the level of education counselling and to make recom-mendations about the amount which is needed. Professor D. Rossell Itavies, of Bristol University is ex-pected to begin work some.

Mr Roy Evans, president of the students' union, said this week that the unit had helped countless students and had a vital rule which was not covered by the university's student and medical counselling services. Students believed it was

dependent.

A spoke-sman for the university said there was general support to education compalling. A discussion independent assessment would stag-gest what sure of resources should

important to be restored since sindents who needed its services.

Port of entry tests proposal meets growing opposition

the academic testing of incoming overseas students of parts of entry made clear in a new confidential circular issued jointly by the Department of Education and Science and the Home Office has gained the tentative apprurate of the Nasional Union of Students, the Union Kingdom Capacit for Ocean. United Kingdom Council for Over-University Service.

University Service,

The new circular, distellment for comment in August by the two departments, overturned a set of proposed regulations Issued in an original document last year which ruled that immigration afficials should have the power to test fareign students.

In a statement on the latest circular in the latest ci

fineign students.

In a statement on the latest circular this week the NUS said: "We ucknowledge and twelcome the changes made in relation to the role of immigration officials in assessing academic ability. However, we still believe that the draft circular leaves open the possibility of interference in the academic autonomy of the

open the possibility of interference in the academic autonomy of the college concerned."

It warned: "Some colleges could interpret the circular in such a way os to make them extensions of the thready existing immigration mechonism. We feel a clear line must be drawn between the rule of the college and the immigration amplication. We do not feel that the draft circular has sufficiently clorified the nosition."

nosition."
The new circular states clearly that it is not the function of immigration authorities to test incoming

only willing to follow a full-time course of study. This involved an assessment of his home fides and

Nuw the NUS is maintaining that this ruling still gives too much power to the intubgration authori-cies. Its stotement says: "Here again the linorigration officials have the powers of summumon whereby they can refuse entry to a student if they doubt his intentions."

on the power of cutry clearunce officers who, the latest circular maintains, can refose a student entry ond ceport the fact to the college involved if they ore not satisfied that on opplicant is bonufield, the unino says: "We are extremely concerned with the wide powers of discretion of entry cerificate officers. We would in the context reiterate our total numbs. ficate officers. We would be this context reiterate our total approsition to entry certificate officers being lesstowed with the powers of academic judges."

"It is our contention that college outlimities are the only suitable ossessors of academic qualifications.

student's cradentials, there should be no underlying assumption that this should be questioned."

Like the UKCOSA and the WUS, the union sold the workened the

the union sold it welcomed the fact that the final decision on ocademic matters should lie with the colleges end believed that the rale of entry certificate officers should be confused to an examination of a later of secondarios from

Inner Landon Education Authority printed nut that cooperation between schools and culleges did exist in his area. Their scheme for the 15-17 year olds which hod began a year ogn was now being expended in encompass two more schools and two more further education colleges.

The 15-17 scheme was specifically designed to provisio an incentive for young people to rejoin the education system and possibly go on to further education full-time.

Tho oew circular states clearly that it is not the function of immigration and the function of the function of the function of a letter of oeceplanco from the college.

A UKCOSA spokesman asid this week: "The general feeling is that about department of the college.

It adds: "ff the immigration and outs about the academic credentials of a student arriving in this country they will normally cell for an academic academic eredentials of a student arriving in this country they will normally cell for an academic academic eredentials of a student arriving in this country they will normally cell for an academic of a letter of oeceplance from the college.

A UKCOSA spokesman asid this week: "The general feeling is that we not pleased that the college.

A WUS spokesman maid this week: "The general feeling is that we not pleased that the college.

A WUS spokesman maid this week: "The general feeling is the country and actions which make it a better document." But he worned the certain sections should still be omented.

A WUS spokesman ndied: "We basicolly welcome the circular in the function of ficiels in academic mothers."



The cootenulal of occiorn Bulgarin is being celebrated by an exhibition of manuscripts at the British Museum which will run until next June. Among them is this 12th-century illustration collided "The Destruction of Jerusalem,", part of the manuscript of the gospels of Tear Lyan Alexander, round of retrenchment

North American news,

ACADEMIC DEVELOPMENTS

EEC grant

for business

administration

For 15 years Buckinghamshire
College of Higher Education has
been an established centre for training in International Trade.

During this period extensive

reciprocal arrangements for the ex-chango of students, staff and mate-rials, have been established with universities, business schools and

industry throughout both Western and Eastern Europe,
The aword marks the recngnitian

grateil course la European lusiness administration.

The college, which already runs illigher National Diploma enurses in

business studios and a postgraduate dipinuta course in export murketing, also hopes to introduce an impours

degree course in European Lusines studies in September 1978.

yourselves

fruitfully

Sussex ready to take science into Europe

The courses are being introduced because of the university's belief that su increasing part of the country's scientific, technological and coonnercial activities involve

ment to a resourch group for half their time with science courses being followed by continental

New remedial

standard and learn the scientific

Sussex University Is to run a series of four-year science courses cambining aciance with European studies. They will include a year at a European university or equivalent and the study of a foreign language.

The first course, physics with European this year and the second, in chemistry, ohould begin next autumn.

The courses are being introduced because of the university's belief that at increasing part of the countery's scientific, technological and commercial activities involve Europea.

Standard and learn the scientific as well as the general use of the language. French and German with be offered at first. Courses and European inwarded an EEC gramt in develop ioint business administration to courses between institutions of higher educations in the European courses at universities without having been trained for a coreer. Secondly, those who give up languages after "O" level beenuse selmol timeinbles do not allow them to combine languages with the subject of their choice.

The physics course is based at Eiropean invarded an EEC gramt in develop ioint business administration courses between institutions of higher educations in the European courses at mistroduced for a coreer. Secondly, those who give up languages after "O" level beenuse selmol timeinbles do not allow them to combine languages with the subject of their choice.

The physics course is based at the general use of the course with similar interesting the course of the university of the course with its subject of their choice.

The physics course is based at the general use of the course with its subject of the course with its subject of the European society and the role of the course with the subject of the course with its subject of the course with its course with the subject of the course with similar in-

nul coonnercial activities may form a number from a number from a number from a number for n "minor" component.

Itha School of European Studies, The final year of the course will be taught largely in the School of European Studies, The final year of the course is with which it stready has contects.

At these nulversities students will have some elioicc in what he closs for n "minor" component.

Ontions Include o deeper study

Options Include o deeper study of parts of physics or related sclences, the sacial dimensions of science or courses in the School of European Studies.

During the first two years of the course students will study a kinging for about a gunrier of their case of language proficiency as well time. They will begin at "O" level as their lise.

Freshapproach therapy course to the arts

by Peter David

A one-year full-time divious course romedial therapy lo to be unched next year by the faculty f medicine at Southampton Univer-

Designed for physiotherepists, occupationed therapists, remadial gymnasts and others in the fiold of remedial therapis and rehabilitation, the new course will be the only post-registration course of its kind in Britain.

Until now, the only post-registration courses available have been very short courses—mainly ebout two weeks' long—devoted to specific toples.

Southompton will also offer the first-over MSc course lu remedial therapy for students who reach e high standard in the diploma.

The diplome course will consist of eight months' intensive acodemic studies and four months' project work with patients. Bosh the diplome and the master's programmo will also concentrate an training students to evaluate research techniques and offundate also the

students to evaluate research techniques and onimulate the development of new research.

Candidates for the diploma course will be expected to possess a professional qualification registrable with an appropriate professional board.



STUDY AT HOME for a London University External DEGREE Wolsey Hall, the only correspondence college with fail courses for London University External BA degrees, provided individual instruction by highly qualified tutors. individual instruction by highly qualified tutors.

Wokey Hall has a remarkable record of sticcess: a past rate of over 90% is achieved in some degree subjects, including a high proportion of the 1st and upper 2nd class honoure awarded.

Courses cover B.A. in One Subject, B.Sc., Alt. I and tl. B.Sc. Econ, L.L.B., B.D., London, University Diploma and Posigraduate-Cert, in Education, College of Preceptora Diplomas, as well as a wide range of processional, career and G.C.E. subjects.

Free prespectus from the Principal W M M Milligan MBB, TD, MA. Depl BAI, Wolsey Hall, Oxford OX2 6PR, Tetephone (0865) 54231 (Ansafane after 4.45, p.m.)

Wolsey Hall OXIGBD

Tho award marks the recognition by the European Cammissian of the success achieved by the college in the specialized field of training for international trade. It will contribute to the establishment of a traily new lusiness administration course. Staff at lluckinghamshire will work with their collengues in Dsnubruck and Clermant Ferrand in the hope of introducing the course in 1980. Student oud staff exchanges inveniently taken place between the three institutions but the new course will see students undertaking formal study in each of the institutions as part of a truly integrated course in European lusiness

An "odventurums" course an the aris has been produced by the National Extension Collego in Cambridge. It is called "The Arts: A Fresh Approach" and is being offered as an alternotive to the NEC's Open University praparatory, series, "Reading to Learn".

experiances. According to Mr Richord Freemsn, executive direc-lor of the NEC, the rourse is "ntore indventurous" in outlank than the "scsdemically respectable" Resul-ing to Learn series.

The new course, enntaining 16 study units, eight ossignments, a wallet, and e cassette tape, is almed at the new type of Open University

of greet authors.

Primerily, the course aims to teach the student to develop the techniques needed for e full appreciation of the arts, rather than mere instruction on the arts themselves.

By drawing on a wide range of sources, the course also etiompts to demonstrate how e study of different arts can lead to e deeper understanding of the modern world.

"The Arts: A Fresh Approach" has been devised by Roger Lewis, lecturer in drama at Leeds Polytechnic; John Golby, Open University staff tutor; Nora Tomlinaon, Open University tutor; and Richerd Baker.

by Maggie Richards

The new course attempts to relate the arts to the sindent's own

Mr Freeman explained: "Reading to Learn was really made for the Intending schoolteacher and the kind of slaudent who entered the Open University in the early 1970s."

What is elainted in bo the first British course on student-directed learning groups is in be offered at Leeds Polytechnic next spring term. Bosel on the idea that much valuable learning begins when a tulor leoves of group of students to talk on their nwn, the course is designed to give higher education lecturers this skills needed to promote such group work. As part of the now series students are encouraged to compare children's paintings with those of Picesso, and to examine the writing of children and adults alangside the works of greet authors. group work. Mrs Frances Todd, o lecturer in psychology in the School of Humani-ties and Contemporory Studies, designed the course based on her experience of investigating amai group leorning in secondary achool and in higher education.

las been devised by Roger Lewis, lecturer in drama at Leads Polytechnic; John Golby, Open University staff tutder; Nora Tomlinaon, Open University tutor; and Richerd Baker, tutor/organizer of the Devizes Aree Bronch Collegs of Further Education.

Hull University's MSc. in industrial psychology has been approved for attuachts supported under the Government Training Opportunities Schems (TOPS). TOPS epproval is only given to courses which train for o specific job.

TOPS approves

It is intended to highlight the advantages of small group work in torms of incroased learner understanding and motivation.

Lanchester is sixth poly to offer media studies

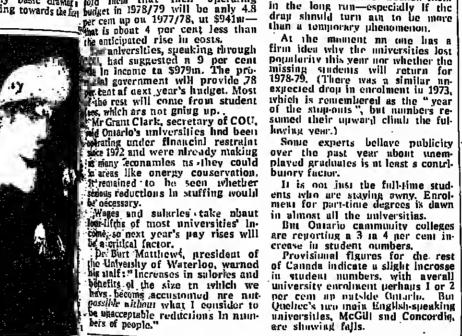
A new IIA homores degree in communication studies is storting at Lanchester Polytechnic next your, llased in the faculty of next and design, it is designed to promote understanding of the rule of mass communication in modern industrial and enderstanding of the rule of mass communication in modern industrial of creative endeavours, is green at Canada, should have gane through the standing of the rule of mass communication in modern industrial of creative endeavours, is green at Canada, should have gane demanded from a surfection studies is green at Canada, should have gane of mentry of mt and design to now course is green at Canada, should have gane of mentry of mt and design to now course is green at Canada, should have gane of creative endeavours, is green at Canada, should have gane of mentry of mt and design to me communication studies in measurements of an near students in the faculty of mt and design to be at lising and leave and the need in provide the basis for a curver. Gruntinos will be equipped to seek holds in industry, particularly sales, marketing and the media.

Cummunication studies is n near subject area and there are only six degree courses in the country all of them at polytechnics.

Dr Mike Richards, who is course runt, explained: "The intellectual background af our new curves is the psychology and socinlogy of communication in conjunction with cultural studies; it is illustrated by or design.

The purpose taken and canada, should have gane through the studies of the sader to add the media. The flat addied finet the solution studies is a fact that a subject area and the need in puriodic depression and th

awards made throughout the com-munity, h will be used in develop a common course with similar institutions in France and West Ger



How to talk among | Miners see light

Miners see light of day release on economics

A three-year day release course for allocation as affered 110 courses in the analyse of such as affered 110 courses in the solid countres this year in Suderial relations, is being held by the university in the such and such the such as affered the such as affe

product quality

Technologists are to get a short cut to developing a commonsense attitude tawards product quality in a six-month diplome course based at Palsley Collega of Tocinnology.

The full-time diplome course in non-destructive testing and quality in a six-month diplome course in non-destructive testing and quality in a language.

The full-time diplome course in non-destructive testing and governity to the collogie's Scottish School of Non-Destructive Testing and is expected to begin in January. Its aim is to provide an integrated approach that to begin in January. Its aim is to provide an integrated approach that the course is ninguages in their third is a fine time in the United Stots does not students spand their third is the course in students spand their third is a fine time in the United Stots does not provide an integrated approach that the course least four year students spand their third is a fine time in the United Stots does not provide an integrated approach that the course least four year students spand their third is a fine time in the United Stots does not provide an integrated approach that the course least four year students spand their third is a fine time in the United Stots does not provide an integrated approach that the course in larguages in their third is a fine time in the United Stots does not provide an integrated approach that the course in likely is awarding grants totalling and twice that number at the universities and colourist and twice that number at the universities and colourist and twice that number at the universities and colourist and twice that number at the universities and colourist and twice that number at the universities and colourist and twice that number at the universities and colourists and colourist and twice that number at the universities and colourists and colourists and colourists and colourists and twice that number at the universities and colourists and colouris

sty staff tutor; Nora Tomilianon, Open Univors of the Baker, Nora Tomilianon, Open University tutor; and Richerd Baker, tutor/organizer of the Baker, tutor/organizer of the Bevizes Aree Bronch Collegs of Further Education.

100 chances to talk teaching

The Dopartment of Education and Science is to run more than 100 short courses for teachers between April, 1978, and March, 1979. Directed by members of the inspectorers of the grant of the gran

by the university into vocational training—a more they would training—a more they would strongly oppose. But they have been to vocational programme to the persuaded to think of it as an educotion of the training of the programme.

Some experts beliave publicity over the past year about unem-played graduates is at least a contri-

in student numbers, with averal university enrolment perhaps I or

busory factor.

Centre for Critical Inquiry opens

WASHINGTON

Their online in order this super street of the super street

Ontario prepares for new Arts PhDs 'not facing jobs reality'

The full in Mudent numbers will have no immediate financial effect because the funding system is designed to be insensitive to sharterm fluctuations in enrolment. But the indirectibles are naturally auxious lest it further weaken them in the leng true-presentially if the in the long run—especially if the drap should turn am to be more than a temporary phenomenon. At the moment nn one has a firm idea why the universities los

popularity this year nor whether the missing students will return for 1978-79. (There was a similar unexpected drop in encolment in 1973, Solution said.

Those who found chollenging jubs ourside academic were as happy in their work as ar happier than the prafessors. Their success is holping to persusde carporntinus.

Strike cand di vith harde entphasis which have called a vith harde entphasis on leaching rather than the world be happier a public service. Ye about the even more soositive issue of which graduate schools should be addition civil servationly in the humanities. which is remembered as the year of the stup-outs", but numbers resumed their upward clinib the fullowing year.)

WASHINGTON

The altriangly make and immediate freeze on all recrubment, to remain by effect "unit a eartful review of the plant can be carried only department chairment and by department chairment a

overall only 20 per cent would succeed.

The study, which was financed by the Audrew W. Mellon Foundation, also inclinied 4,000 men and women who have received Phits over the past 25 years—half with neademic and half with non-academic jobs. Results here are encouraging, Dr. Solmon, said.

Those who found statements is on teaching rather than the past of the properties of the statement of the st

Less controversially, the study suggested that those with doctorates in the humanities need to be able to continue their studies ofter they take up full-time employment unisida academe. Accessibility to libraries and learned journals, which has become very difficult for non-academics in many places, must be improved.

The future of the humanities 18.0.

The future of the humanities PhD arould be less gloonly if the government showed itself to be more willing to employ ductors of history, philosophy, arts and languages, said Dr. Solmon. Many ductoral students what have reservations along the world of hig business would be happier about a career in public service. Yet at gresent only 8th of the United States' three willian civil servants have a PhD in the humanides.

Clampdown on

Watch films and learn to read better

from Michael Binyon

WASHINGTON lot of American students who caunot write proper English are gaing, to the mavias. They are dolng so in lecture time-snd with the encouragement af their teochers. All aver the cauntry, more sud mare universities are nsing films ta Imprava students' understanding uf banks and ability

Michigan State University is one Michigan State University is one af tha pioneers of film caurses. In 1970 the Department of American Thaught' and Lsuguaga started a enurse called America an Film which is now immensicy popular. Same 3,000 students have wetched such classics as Birth af a Nation and Citizen Knae. The mast papular are Cool Hand Luka, Bannie and Ciyde, Klute, Buch Cassidy and the Sundance Kid, Psycha, North by Northwest and The Autobiography of Miss Jone Pittman.

Professor Horbart Bergman uses commercial antertainment films in compasitian caursos, and is to pub-

commercial antertainment films in compasitian caursos, and is to publish a boak lotar this year on film and the tearling of English. He said that in 1970 American colleges offered a total af 1,669 courses dealing with some aspect of film itself; last year the number rass to 3,873. A rocent survey by the Modern Language Association suggested a corrosponding increase of film use in English courses.

Dr Bergmae ottributed the inpularity of films to the infinctice of television. By the films about 15,000 hours of television, he sold. This gove him to highly developed view-

Students sue over fee rises



familian skilla of reading and writing.

Over the year, the university reports, attulents' campions they have been favourable; because they were autorizined they galved new inentertained, they gained new in-sights, saw classic books in a naw light and wors inspired to put more effort into writing. Previously in-articulata students began to contri-

articulata students began to contributa to clusa illicussions.

Although the film spureach to teaching is criticized by some for being "unsophisticated" or not requiring audents to rend enough, tha technique seems to have a bright future. Dr Borgman and a number of universe to the profile of the companies have storted profile in the companies of sildes oud film streps, and for the first time this year the Modern Language Association has a film division, along with its Shokespoare and Augustan Age literetura ones.

unionization The governments of Canada's 100

British Culumbia, brave passed laws acceptaing faculty associations from unionizing. The legislation is strongly opposed by the Capulian Association of University Teuchers, which has written to the Intornationol Labaur Organizzilan saying li violates lts conventions.

It violates its conventions.

Each province has a slightly different reason for taking this oction. In British Columbia Mr Potrick McGeer, the Education Minister, changed the Universities Act because he does not believe collective bargaining a proper course for universities—though the province's 14 community colleges may choose whother they wish to coptimue to be estified under the Trade Union Act or bolong to a professional union instead.

In Alborta the thrust of the legislating is to provent civil servants having the right to atrike—und university employees are therefore included more as an afterthought.

In bath provinces the changan hava little practical offect suca no university faculty associations are uninnized. But opposition has been raised by the peremptory manner in which the Bills were introduced.

The ivestern province's representative of the CAUT and there was a sharp illylsion uniong reaching over chilective bargaining. He therefore did not think there was into mora the esancipion child do to change the legislation until the fecturere themselves were unfiled in their approach to were unifled in their approuch to the quoation.

Mr. McGeor hos sold he is willing to introduce a Bill to allow occileotico to unionizo if he ia convinced they wish to do so. Few polls hava shown any reol support for this

F 200 R

Technology sector accounts

The changes also exhibiting control of the highest education opening more available outside by eight Regional Technical are outside the capial one in County Donegal hat treme morth west. The britten Ranional Institute of Education and Thomosof Education and Thomosof Education and Thomosof Education for december the desire for december the desire for december of the superside the desire of th

more than it was a few as Most of the demand as concentrated on the mir partly because of the partly because the RTCs we yet fully established thems.

As a result, there are about

niphennts for each university

medicina mid densisty entries is much greater. A cash greater. A cash greater. A cash greater is much greater to get admiss a subjects to get admiss a subjects to get admiss a subject to get admiss a subject of the feor has been widely ever-rising ucodemic admission of trocking class student will reduce further the proceed is a busy ber of trocking class student applicant, taking the most ocademiss. Another suggestion is a safe each social class.

company found it extends

20pc of tertiary places

from Paul McGill

in 1968/69.

In the same eight-year pecied, the teacher education colleges increased their numbers by 48 per cent, but remained the smollest sector with only 2,742 studente. The universities say the slowest growth rate—26.5 per cent over the pecied—lesving them with 22,064 plucos last year.

The result is that the technological sector has raised its sharo of third level places from 7 to 22 ner eent at the expense of the universities, which have tumbled from 84 per cent to just under 70 per cent. Tencher training remains about the some.

These trends underline the release

These trends undorlino the ilesiro

of successive governments to deve-lop a higher education system which is more endustrially relevant than hilherto. Significantly, it is not doing so by forcing the universities to become more expendently.

to become more economically useful but by concentrating on a new, functional, occtor.

Employers criticize reading

of graduates for work

AMSTERHAM

Loans scheme proposal comes under attack

The student grants system is being scrutinized.

Lindsay Wright reports.

WELLINGTON

New Zealand's Standard Tertiery Bursary, the grant-in-aid to students at inliversities, technical to stillents at inliversities, technical institutes and, in a faw cases, teachers' colleges, had an uneasy geststion period and has recently been axamined by the Department of Education with the help of a wide-tanging conference.

Delegate from the national student organizations were joined by e welter of university and teacher groups, together with representatives of New Zoaland's Arts Council the National Council of Women and the Instituto of Chartered Secretaries for a two-day discussion around a 96-page poper prepared by the Department of Education's Director of Continuing Education, Mr Deny Gerrett.

Student groupo, cismouring durlog the first half of this year for e substantial increase in bursary allowances, and given a \$2-e-week in the string still the string still the string string in the very additional \$1 a week to bursary holders costs the taxpayer oround \$100 o year, the Department has been less enthusies in the UGC to give its backing to increases sought by students.

The effect of the new system in 1976, when some 24,373 students received the tertiary bursary entowed the tertiary bursa

Student groups clanouring during the substantial increase and given a \$2-e-week rise in this year's Budget, hove been living unestly with the new grant system since it was first conceived by the control of the first of the property of the control of the first of the property of the control of the first of the property of the control of the first of the property of the control of the first of the property of the

Left suggests new role for grandes écoles

Before the Stondard Tertinry
Bursary was introduced, and those level of support given to university students extended to reclaim higher, but bonded, studentship, the university students, through their ballomal association (NZUSA), had been oble to bargain directly with the UGC over the level of the allowances.

The new system, however, brought in a wide rooge of Interest groups and took the bargaining point back to the Department of Education—from which it had shifted in the early 1960s.

Conscious that every additional \$1 a week to barsaryholders costs the Excle Centrale des Aris et Metiers the Excle Centrale des Aris et Metiers and the Excle Centrale des Aris DUBLIN
The technological sector in the Republic of Ireland lass almost quadrupled in the lass eight years and now accounts for neer one fifth of all brigher education places, according in figures released by the Department of Education and the Higher Education Ambierity.

During the 1960s, almost all the growth in higher education took place in the indiversities. To befauce this and to help provide the technicions nesded for a rapidly industricilizing society, the gavernment of Regional Technical Colleges, the first of which appear in 1970.

Ily 1976/77, the eight RTCs had a combined enrolment of 3,523 and the other vocational-technological colleges had slightly smaller numbers, anaking o total of 6,836 in that year compared with only 1,449 in 1968/69.

Lithe same eight-year peciod, the

The Socialist Party was careful, however, to emphosise that "bringling tagether" the two sectors is not the same of integraling them. The first stage would be mainly an administrative reform with both universities end grandes coles being run by the same ministry.

During the changeover period, first-cycls university students would follow the syllobuses and teoching currently dispensed in the "super sixth forms" (classes preparotoires) leading to the grondes ecoles.

try and commerco.

The programme emphosizes, too, the necil to open access to higher education up still furthee. Each university would be called upon to include a secondary of the intake from applicants who had not comploted secondary education. Thay would be odmitted without any prior qualifying examination. It is also proposed that students should apand some of their time on industrial release schemes and that lectucers on sabbatical leove should apand their time either on research, work in industry oc taking part in social services sector wock.

A lending Dutch employers, myanization has complained about the insultability of young graduates for the lubrour market.

A report in The Employer, the independent of the lubrour of the Dutch Christian Organismion, says that despite a growing surplus of young academics in a dwindling graduate lobour macket, both government until Industry no Ending it increasingly difficult to get the right people.

Mony spplications from graduous gn to further than the opplication letter itself. The inability of graduates to put even e simple letter togethee in decent Dutch is o recurrent comploint. One firm soil that one-seventh of the S00 opplication received minually were autmatically dismissed because of this. At interviews, many graduates also showed signs of immaturity, lacked motivation and business limprassion of being able to estublish contact quickly with others.

Graduates' expectations of jobs, too, were much higher than they sessing the prove themselves.

Graduates' expectations of jobs, too, were much higher than they assumed they would be pleced in faving to prove themselves.

Tha lack of practical "knowning among graduates was onother."

AMSTERIIAM rule to recent 40 electric fourth of each of the single cers in year capable of fait scarch as well as holding as the figure had now dropped in the figure bad now dropped in the figure as well as holding as the figure bad now dropped in the figure ba Violence fear as top institute reopens

from our correspondent

ANKARA

Chehas between right and left
wing adding have been an integral
put the part that higher educities of the form
of the part that higher educities of the form
of least part to the part that higher educities of the form
of least part to the part that higher educities of the form
of least part to the part that higher educities of the form
of liddle Best Technical University
compus, METU, is now Turkeys
and the part that higher education of the part that higher education to the part that higher education to the part that higher educated into a virtual
part the part that higher educated into a virtual
compus, METU, is now Turkeys
and the part that higher educated into a virtual
compus, METU, is now Turkeys
and the part that higher educated into a part to the part that higher educated into a part to the part that higher educated into a part to the part that higher educated into a part to the part that higher educated into a virtual
compus, METU, is now Turkeys
and the part that higher educated into a part to the part that higher educated into a part to the part that higher educated into a part to the part that the part to the part that higher educated into a part to the part

THE TAMES HIGHER EHUGATION SUPPLEMENT 2.12.77

Don's diary

Tuesday

For the past two weeks the University of New England has been very quiet because of the mid-semester break. Now the holiday is coming to an end and the residential college, are filling with "external."

About 40 per cont of the university's students are people with fullitione jubs and families taking degrees on the side. Most of them to make the side of the moving session may be in at this point in the semester to attend school. So, one by note, my colleagues in all departments are learning themselves away from their coustal holiday homes and divide back. It is some 150 miles or so to the suttry bur windstream platean called New England Iron may note.

The movement of them to make the article of the moving session in the substitution of the course have a formal examination. The result is come in at this point in the semester to attend a found of the moving session the static bound of the course have a formal examination. The result is come in a this point in the semester to attend the course have a formal examination. The result is come in a this point in the semester to attend the course have a formal examination. The result is come in a this point in the semester to attend the course have a formal examination. The result is come in a this point in the semester to attend the course have a formal examination of the course have a formal examination of the course have a formal examination. The result is a give extern ions, on comparability of marking, the meaning of regular to marking the mession of the course have a formal examination. The result is a give extern ions, on comparability of marking the mession of the course have a formal examination. The result is a give extern ions, on comparability of marking the mession of the course have a formal examination. The result is a give extern ions, on comparability of marking the mession of the course have a formal examination. The result is a give extern ions, on comparability of marking the mession of the course have a formal examination. The result is a give exte stoom facilities and the sign growth in places since it demand has greatly supply. Ten years aso is abolished in most second out the result has been unaston in pupil number. More and more after the ing on ot school of take it. Certificate examinate 35,000 last summer compuned 15,000 in 1963. Since of every 10 pass the examination of every 10 pass the same of every 10 pass the same school-leavers failing to school-leavers failing to supple than it was a fer year.

isolation of British "plateglass" universities look insignificant. The campus is a long walk even from the inaccessible country town (sorry, city), Armidale, which is adjoins and which depends an it for livelihood. From Armidale it is eight hours by road to Sydney, six to Brisbane. A Fokker Friendship flies up twice daily from the New South Whies capital and lands of this, the highest airport in Australia, without radio ground control.

I tan have cure back to take a residential school. It begins to morrow and there are lost minma things to do. I tuen my Holden scross the creek floodway and past the university kongaroo park. A few rous are sitting by the fence walting in vain for visitura.

The department is practically empty when I arrive. I lesra that the chap who is giving the cestionatal school with me has had ear trouble on the way bock from a conference in Sydney end our presarranged meeting will not occur. I am lacky to be sharing the funr foursessian days of lecturing with hir. Quite often you can flad yourself responsible for the whole in. I hope be gets bock before the morrow.

After shulfling through some lec-

hope be gets bock before the morrow.

After shulfling through some lecture notes and nunking a coupic of telephone calls, I drift over to the library. I cead in neer solitude and eventually deelde to go home. Ourside only the longuies break the silence with their strange musical cries. I proceed coutlously. The local magpies strack people in springime. This time last year a lad on a bleycla had a nesty experience.

Wednesday

Many of the externals strived last evening on the plane from Sydney or by car from the north. Others have come from the "outback". For thicoi, to drive through the bush to Armidele is to come in the bush to Armidele is to come in the sun outside the college where the school will be held. My English accept soon gives the game sway. "50 you're Dyvid [sic] Lector from your course notes we suessel you must be 60." (I'm not.) One mon tells me he lives "out wesr", teachos Aborigine children. Bers a few books by post. Another lives now Surger of the plane from your course notes we suessel you must be 60." (I'm not.) One mon tells me he lives "out yesteedsy someone observed ruefully: "Externals connot compete with the real students." Many of the externals strived irom your course notes we suessell you must be 60." (I'm not.)
One mon tells me he lives "out west", teachos Aborigine children, sets a few books by post. Another lives near Surfers' Pacadise: "Can't set any of those books you mentioned."

lioned.

I am led to the lecture ronm. In the opening session we explain the programme. Then I am left to give the first lecture. After 10 minutes I pause. Any questions far? I am not expecting any but in fact, the response is immediate and a lively interchanga proceeds for the next 70 minutes. It is the same when I give my second session in the efternoon. It is most of course. am not, of course.
The school is running itself. For its it is a change. But for its it is a change. But for its students it lo. also e one-olf

explained. And a chance to act out ideas of "student lite" at an intensity which full-time student probably never experience. The atmosphere is jully but carnest.

their coustal holday hones and fliving back. It is some 150 miles or so to the satury bur windstrept plateau called New England from which the "Uni" or UNE takes it same.

"Higher" education takes on a new meaning here. We ore situated at approximately 3,000 feet and some people find themselves panting from lack of oxygen. Like Essex and Sussex the UNE is a campus university, which means that it is a huddle of newish concrete buildings—pleasanter than most—set in the middle of fields tsory, padducks).

Its isolation makes the so-culled isolation of British "plateglass" universities look insignificant. The folk group pleads for less naise. Everyone laughts. The good Australia Schools and the order of the staid, some rowdy. One man tells me had as been studying to make take has been studying to make the has has been studying to make the has been studying to make the has been studying to make the a norsing sister and a pair of noise. They tell me they like my jokes—
"The Brits ere good at ther". The folk group pleads for less noise. Everyone laughs. The good Australian wine flows on. . . .



The last dev of the school and I give my final iscura. We ore all nuncli-drunk but the students, who have assiduously covered the full semester course in for days, are exhausted. Alas, neor-bilzzard weether, coming suddenly out of the Armidole sunshine, hoo put paid to plens for a farcwell barbocue. Amazingly, morala remoins high said there is much joillty. At the end of the session I end my colleague are presented with genuine Aussis billycens. Insido mins io a scraw and a packet ol nuts. packet of mits.

e of Furmor interruption, and pre-pare my own theses which begut tomorrow. The moise level has tighted curve my bet year the chatter is not confunct to andony

sinty leave are not intique to Austration common runnis, rimono on the subject are seized on mor auximisty here. For many of the academics say they rely on their prips to Europe and the States to "keep up". And lor a few it is burged for escape from isolation.

Tuesday

And now to nicet the "real" sindents again. Inday I have a two-linur seminar un my own option (The "visitor's elective" affered to internals only) an the sociology of labour and industry. It is a strange thing to be teaching when the landscape for miles around contains only sleep farms and birth.

sheep farms and birth.

The 22 simients ere therefore unusual in that they have chosen to study a topic the department does not regularly offer. (The library lacks and to the relevant books.) Yet on the basis of this group and one other which I teach I suppose I must prepare to answer the immossible but inevitable ques-

I suppose I finist prepare to answer the impossible but incvitable question when I get back: "What were the students like?"

The conventinual wisdom at UNE is that the best internal students have been creamed off to the big city institutions—Sydney, New South Wales, Macquarie, Mayba, Receipted the pregional principle. South Wales, Macquerie. Maybs. Because the regional principle nperotes more strongly in Austrelie, havover, my impression is that there is a contingent of peopls—low big. I cannot say—who would compare with the best students anywhere.

an assignment is ownered enviously.
One or two faces I never saw hefore hove suddenly appeared (class misadence is not compulsory). The more datached studento describe UNE os "the degree factory". Hoven't I heerd that before?

The fact is that Uropian ideals about a community of learning flourish moinly emong those whose contact is margiani and flaeting. The ones who ere at university "ell the time" ere tropped by a series

American academics



sion stready overlong, and studded with an exceptional number of initiatives that directly affect unit-versities and colleges, congress moved rupidly towerds lagislation that will ruise the age of orandatory retirement to 70. At this writing the new law is not yet finally enacted. It passed both house and senate with huge majoritios, but a senate with huge majoritios, but a senate smendment would exempt enliege and university professors from its application. This, and some other points of difference between the house and senoto versions, is before a conference of mailtee. Mindful of the greying of American voters, congress species certain to pass whate ever emergos from conference, and e prosidential veto is most unlikely. One may empland or question in this stage is divided on the mutter of possible exemption for faculty. Most of the national essociations representing American higher educations are lobbying vigorously for the exemption. These organizations reflect intreely the views of indiversity at the state of knowledge. Job on the case choy, maks is essentially that

low big. I cannot ssy—who would compare with the best students anywhere.

Nor is there the reluciance to speak end discuss wheh grins clusses at Essex. A group of 20 here is considered "cosy". Fluancial pressure forces many to teke a more lustrumental view of their studies enupored with their British counterparts. State sld is less plontiful and a number have siready withdrawn becouse of money problems. One man in the closs sets as caretaker on the local estiles showground to pay for his studies. The broader foens of Australian degress olso complicates the comportison. Sociology, for example, is taught as part of a liberal arts programme. Only a handful go on to specialize in the subject. I hove gramme. Only a handful go on to specialize in the subject. I hove constantly to readjust my ideos of how much background end who work load to expect.

Parodoxically, these differences focce on ms a gut feeling their the problems of mess higher education in this stage is divided on the munter of constitutions of the national essociations representing American higher education mer lobbying vigorously for the cxemption. These organizations representing American higher education mer lobbying vigorously for the exemption. These organizations representing American higher education are lobbying vigorously for the exemption. These organizations representing American higher education are lobbying vigorously for the cxemption. These organizations representing American higher educations representing American higher education are lobbying vigorously for the exemption. These organizations reflect largely that views of mile exemption. These organizations of each processor and universities and munter of control of the cxemption. These organizations of control of the exemption. These organizations of acceptance in the exemption. These organizations of the exemption. These organizations of acceptance in the exemption. These organizations of acceptance in the exemption. These organizations of acceptance in the exemption are forced in the

both of their experienced compe-tence and because they represent no long-term obligation What the administrators fear, but

aborton to say, is the pospect of carrying on the payroll for the additional years partessors with tenure who have in effect powen to he less thing competent years before they reached 65. It is widely known and accepted that, indees a whole incitation changes as a ball whole institution closes to a whole teaching programme is eliminated for financial reasons, individual tenure in corrent American practice may be revoked only by peer review, and that the result is all too often job security for the less than competent. Only flagrant in competence is likely in lead to a vone for termination of tenure by any faculty committee of review.

The American system of academic tenure evolved as a means of pro-teering academic freedom. Ex-perience indicates that it also pro-

Steven Muller

Sometimes public discussion illuminates an issue, sumetimes it serves primarily to distort. More head that light is being gederated by the current contriversy within American higher collection about raising the mandatory retirement age for faculty from 65 to 70. The molerlying fundamental issue is the disappearance of jobs for new doctorates, but he the course of the light enter than clarified.

The controversy begon—noce again—with action by the course of the course of the United States. During a session stready overlong, and studded with an exceptional number of hilitatives that directly affect universities and colleges, congress moved rapidly towerds lagislation for young ralent. Along the provisions for more questions than its answers.

Lost in all this—most regretably—is the grow and real issue of no few jobs for young ralent. Along

increase agein towerds tha very ond of the century. But if nothing is done until then, thousands of polculal carears, colleges end universities, the state of knowledge and science in all fields, and snelety us a winde will all have suffered irraparable demage.

The prospects are grim, and in reality the situation will not be

of professional retirement is raised to 70 by the congress, nor much rolleved if professors ore exempted from the new legislation.

The sellent facts in the United

The sellent facts in the United States are elready established. Higher edneation expanded hugely for 25 years effect 1945. In the process tens of thousands of new-contents emered, the professorinte. The expansion not only ended during the pest five years, but a contraction of still unearteln scope has begun, prompted by the certainty of fewar secondary school grednates—the comploidly predictable result of ilcellning litth cates—only still intensifying finencial scarcity.

where theory of rationalization and having read it I feel thoroughly humbeld, it gets A-plus.

Yet only yesteddsy someone distance is ownered environment in the problem of the problem of the problem of the problem at UNE", remarked someone of a dinner perty last an including two components and individuals are time. The problem at UNE", remarked someone of a dinner perty last and individuals are time. The problem at UNE", remarked someone of a dinner perty last and plat, "is that we are running two or miversities at ouce, internal and externs. The two halves selfator more transfer to the single past item on my way home f realize the single past item on my way home f realize the single past item on my way home f realize the single past item on my way home f realize the suniversity at the externals has the university at the externals has feded leaving only example.

It is place internal classes here.

In its place internal classes into take the comprisory.

In its place internal classes internal classes into the class into the case into the classes into the classes into content classes into the classes into content classes into the content classes

6

MOTICE BOARD

De Fred Straiton, director of the bloud translusion service of the North Wes-tern Regional Heafth Authority and part-time reader in human serology at the University of Manchester has been promated to the chair (part time) of human serology from hecember 1, 1977.

Universities

Enterius professors: T. K. Ewer (autmai husbandry); W. A. Gillespie (clinical bucteriology); R. W. Peel

Rent
Promotion to reader; Dr J. R. Davis
(social authropology). Promotion to
scalor lecturers; A. H. Copley (faculty
of humanities—bistory); M. M. Ruraly
(faculty of humanities—German);
D. G. Astworth (faculty of natural
sciences—electronics); C. J. Knowles
(faculty of natural sciences—bindagy);
J. A. Kumar (faculty of social sciences

present consultant in charge of the department of urology in the Royal Naval Hospital, Hadar, has been appointed to the newly established chair of urological surgery at Mauchester University.

Dr G. H.. Bexendele, at present reader in chemistry at Manchester University has been promoted to the chair of physical chemistry from December 1. It has Gordon Stanonous, reader in geography in the University of Durham has been appointed to the chair in geography at the University of Bristol, follewing the retirement of Professor Peel.

Peel.
Profesant Phyllida Parsine, professor of social work in the University of Aberdeen has been appointed to the newly established chair in social work ut

-sociology); C. G. Pickvance (faculty of social science—interdisciplinary studies); R. Scace (faculty of social sciences—sociology); P. A. Coggle (fanguage centre—German).

Lecturers: Jill Siegerstetter (continuity medicine and general practice); David Storer (psychiatryl. Research follows: C. J. Worsley tschool of education); J. P. Dickinson (radiotherapy); Terence Dastale (ceramics); A. S. Edmendson (Microbiniogy); Alstair Watt Macintyre Hay (animal physiology and noteliton). Emma and Leslie Reid Fellow: A. L. Willis (medicine). Research coglucer: P. S. Hope (mechanical engineering and physics). System nottager: J. S. Suffi.

Pro-chancellors : Lewis Waddllove and

Dr Robert P. Dearden has been appointed professor of clucation and head of the department of history and philosophy of education in the University of Birmingham from April 1, 1978. In Dearden has been a reader in the philosophy of education, University of Loudon, since 1972. In M. J. Lanigan, formerly general manager. Plessey Processor Unit, Plessey Co, Slongh, has been appointed professor of digital electronics at the flutversity of Kent at Canterbury from Delober 1, 1977. Professor W. Elkan, formerly professor ond head of the department of economics at the University of Ducham, has been appointed to a newly created chair of economics and head of department at Branel University from January 1, 1978.

Manchester

Namenester
Lecturer: Trevor Young (agricultural economics); Alan Frans and N. E. Patuer (faw); J. T. Ferguson (clinical neurology); Jagadev Mohau (neurosurgery); Alashkir Rawsthorne (computer science). Administrative ussistant in the hursar's department: C. V. Sinhbs, Assistant librarious in the John Rylands University Library: Dorothy Chayron, C. D. Ffeld.

Brunei
Reader: Dr S. Giner (sociology and
social authropology); Dr B. Bercusson
and N. H. Bourue (law); R. F.
Fellows ibuilding technology); R.
Fenn inciallurgy); Dr M. J. Fulkers
(non-metallic nuterials); Dr R. T.
Hartley (cyhernelics); R. H. M. Wukeliu (building technology).

Genetics-£18,840 from the MRC for research on electron microscupic studies of microsulal DNA, under the direction of Dr S. Banntherg, Dr J. II. Parish and Dr J. C. Woothen; £18,75.1 from the SRC for a project on lifesyncthists and mode of action of cylaklulu lu physcomlicella paleus, muler the direction of Professor D. J. Cove; 17,579 from the MRC for the investigation of the molecular basis of aberrant "Inreign" gene expression in Profess, mater the direction of Dr S. Banmherg.

Polytechnics

Eric Mitchell, who retires early lu 1978 from his post as contract manager at the Lucas Group Research Centre, has been hevited to join the heard of governors of the Laucaster Pulylechgovernors of the Laucaster Pulytech-ule. This follows on appointment by the Secretary of State for Education to a second term on the Technician Education Council and an appointment to the Board of Munagement of the National Foundation for Educational Research in England and Wales.

Oxford

licads of department: Dr C. R. Barber (social studies); Dr D. M. Yardley (law, politics and economics).

"Authorization for PVC and Transit Control of Control o

"Mathematics for BEC and TEC", a study conference for mathematics uscliers in further education will kneed from January 3-7 at Cook Lodge Forther falucation Staff College. It will deal with the approaches of it Technician and Business Education Councils to numerousy and the problem associated with the transition is a school to college. Fee: £40. Farily information from the register of clerk to the governors, the Further Indication Staff College, Cook Lodge, Blagdon, Bristol.

A series of ndvanced weekly eversity

Is education a pain in the neck? A series of advanced weekly enemal lectures and associated semions a lengtheering Design with Non-Medic Materials has been organized by its School of Materials at Branel University from January 12 until March I inclusive, to be held at the university fee: 17th for the whole series, whe was 18 at day. Further informets from the advanced fectures secrets department of non-metallic material transct Indiversity, University, Make 18 at 321.

The London School of Economics Bur-lade h Scalety by organizing a pub-talk on "Rural Development Prosect for Bangladesh " by Dr G. K. Ashus, sender research economist of the Bur-ladesh Institute of Development Studies on December 10 in Room & Main Building, LSE, Houghton Steel, London WCZA ZAE,

London WC2A 2AE.

Olsmet celating to the Classroom associating of reducation conference is to be held from January 3.5 at Weshill Endlege of Education, Speakers included your Reid from Bradford University and Raylor Hargeavos from Machibeter University, Fee: £23 full price; and resulem: £5. Further information from Mr. I. Barton, Education Department. Weshill College of Education, Weshill College of Education, Weshill College of Education, Weshill English B29 6LL.

Open University programmes December 3-9

Sunday December 4

11AD10 4 [VHF]
0.30 Associato Student Programme fils
10.00 (1.1) Anapuncturent Muse Fil.
10.10 the pre-tipol child: See Fill
110.14; prog 49.

Thursday December 8.

Friday December 9 PAULO 3 (VHF)
18-10
Stu-nee foundation course: Introduct
(don to 8100 (8100); gros Kitt
18-30
Assertate Student Programme it.
18-10
It. Announcements dust in the Tell
It. Student Programme in the State Tell
It. Student Programme in the State Tell
It. Student Politics and Articles

18-10
It. Student Politics

It.

Noticeboard is compiled by Patricia Santinelli. and Mila Goldie ...

Forthcoming events

"Research Grants and Compact" investigental scentinar for myran administrators will be held on Data ber 2tt and 21 at the University 4. Both. The object is to provide finds from and exchange information on the is considered good practice in the contracts in universities, Topks to clude: Controllstoned Research Cost and the Controllstoned Research Cost in the Controllstoned in the C

of Handkapped Young Adults: Was help and Services Do We Need? Treshbentlar short course sponsored in the Lentral Council For Education of Training in Social Work, will be left from December 12-16 at Gloscon College of Education, Oxsults last Gloscoster, CCETSW will meet them course lee of £55 for the above and in Wales and the South West, Puriled intornation from Mr Kelth Refish administrative officer, CCETSW, Whiteladies Road, Bristol BSS INU.

Robbins

mains in close touch wide scudemic life.

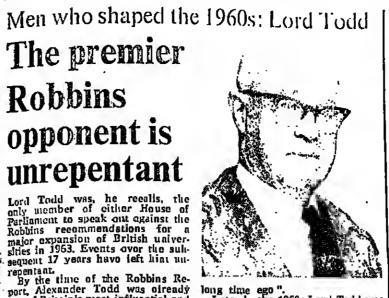
In the early 1960s the Western world was enught up by a cuplioric feeling that more and more higher education should he provided faster and faster. Lord Todd says. In Britain it menat that plans for a rapid expansion of the university sector were swallowed hook, line and sinker by the main political parties, clauost overnight. He himself ogrees that more young peoplo needed to he given its opportunity to undertake terriary education. The grave error was to base the expansion on the traditional university pettern designed to deal with a small minority of our young people which was believed to be creative end to heve powers of leadership. That such a group or elite exists unust be clear to anyone who has been cancerned with higher education and it should, iddeed nust, be given every opportunity to develop its powers to the

when the hauself ogrees that more young people needed to be given as expansion on the traditional university pettern "designed to deal with a small minority of our young repole which was believed to be creative and to have powers of leafership. That such a group or either exists unust be clear to exist the part of a multisfacily of the continuity to develop its powers to the full."

But the result of university overse or the full is the result of university overses.

But the result of university oversepansian in the 1950s was to push far to many students into a system safe to any for titls assist often. They are produced to be full in the country of the will be considered in the country of the will actually be oble to pursue.

But the result of university oversepansian in the 1950s was to push far to many students into a system safe to many students into a system safe to follow careors itsy this as as been bullt up to the 10,000 student lovel before sin Government and the control of the country of the country



By the fine of the koolins report, Alexander Todd was oready one of Britain's most influential and respected scientists. He had been a hinself in charge of a Rnyal Comlife peer for a year, chalrman of the Government's Advisory Council oo Scientific Policy since 1952 and professor in organic chemistry at Cambridge since 1944. His pioneering work on the analysis and synthesis of nucleotides was rewarded by a Nobel chemistry prize in 1957.

Now at the age in 70, as President of the Royal Society and a new member of the Order of Merit, he is the premior scientist in the land. As Master of Christ's College, Cambridge, and a very serive Chancetlar of Strathclyde University, he remains in close touch wide sendemic life.

In the early 1960s the Western of the recommendations to the Told Roport and he feois that most of them ere gradually being put into affect. The numbergraduate current.

the same education."

Lord Todd dose not think the mistakes of the 1960s will be with a for over, however. "In the full-hess of time the universities will ser identify. A certain number of them will be regarded as higher level institutions fed by lower and sa is happoning in the United States."

The American experience was emoverful stimulus to European university expansion in the 1950s and 1960s, be says. People noted the vest number of universities in the US and the country's enormous post-war power and wealth, and concluded that the two were then surprised the nid system that had been doveloped a surprised to the surprised that the two were then surprised the nid system that had been doveloped a system that had been doveloped a surprised that the two were then surprised the nid system that had been doveloped a system that had been doveloped a surprised the nid system that had been doveloped a surprised the nid system that had been doveloped a surprised the nid system that had been doveloped a surprised the nid system that had been doveloped a surprised that the two were the nid system that had been doveloped a surprised that the two were the nid system that had been doveloped a surprised that the two were the nid system that had been doveloped a surprised that the two were the nid system that had been doveloped a surprised that the two were the nid system that had been doveloped a system that had been doveloped a surprised the nid state that the two were the nid system that had the two the

London's chalk-face workers move to new training-ground

and of a federation of university departments and affiliated colleges.

The central institute is maintained by the university and its rolo in relation to its parent body is similar to that of a department of education in some other miver-

ered for certificates, diplomus, and degrees at every level from initial nostgraduate teachor training to the PhD, the institute is one of the iargest graduate schools in any

Last summor die institute moved into its new building in Heillord Way. Designed by Sir Denys Losdon, the architect of the National Thoatro, it consists of a main "spine" extending the length of

Square.

In time it is hoped that more wings will be added so that the library, seven minutes away, ond several other departments in nearly houses can join the main institute.

houses can join the muin institute.

Additional space would also allow for improved refectory facilities and other unsenties which would contribute to the institute's social life.

Inside the new nine-storey hullding there is a 1,000-sent theore end lecture hall, Logan Hall, which is shared by the university and the institute, a \$00-seet theatre, several other large halls, a television studio. other large halls, a television studio, a media resources centre, leboratories, and a generally excellent range of facilities necessary for a major educational studies centre.

major educationes studies centre.

It differs from other British
centres of education studies not only
it its sheer size but is terms of
the wide range of specialisms avelleble, the amount of research being
conducted, and the cosmupolitan
character of its student body.

cappod children.
Apart from baying the highest interest councils. The control as a policy and it would need a position and terms of do so.

believes the emalgaence with education in 1965 was unfortunate ation is a much lerger liv more important lence. Science elways ghend of the sticking becomes tough. The document of the common commendations from body were channelled ho Cabinet through escience though not a cletter.

Clive COOKSON

The Institute of Education consists of one distinct entity informally known as the "central institute" and of a following the missessia and of a following the missessia and institute and the students will return to do higher degrees in educational psychology.

Each FGCE student spends 12 University of Landon's institute of Education, in this, the institute's 75th year. Simon Midgley

brought changes. New subjects such as business studies reflect changes in school curricula and teaching With more than 2,400 students niethod courses have become more from more than 80 countries regis-

> of pattern entering in an interdiscipling or approach to solving shared problems. Another relatively new creation is the currientum studies department which evolved in resumment which evolved in resumme to a need in thing the various disciplines and subjects together so that the curriculum could be studied us a whole.

> Ever siyes a department of enland chication started in 1927, the institute has had a long tradition as a centre for overseas students. This year there are more than 400 from 76 countries.

> Recently three departments, thosu of comparative education, education in developing countries and English as a fareign language, became associated in a Centre for International Studies in order to strengthen the

Studies in order in strengthen the programme for students concerned with education overseas.

Dr Terry Davis, dean of prifessional studies, who is in charge of organizing the initial courses, is keen to explare the potential of new tochniques like performance based teaching (PBT), which is on assessment of teachers based on observable performance in the classmon. The technique of "micro-teaching", a sesled-down approach to teacher truining, is already being used in several departments. Hero a student teaches e small number of pupils or nears for a limited emount of time one hasic skill or technique and is evaluated afterwards by his contemporaries and tutors.

tutors.

An experimental "shedow" post-graduate certificate of education (PGCE) is being run poralial with the established course to investigate the potential of running a more school-based scheme. This year 30 students are taking part and in 1978 it is hoped to raise numbers to 45.

Lest year a new primary school PGCE course was introduced. At the moment only 20 of the 556 PGCE, ATC and MTC students, the top limit imposed on the college by Mrs Shirley Williams, work in the primary field. The course is oriented towards child development and it is

Each PGCE student spends 12 weeks in a secondary school and two weeks in a primary school and strendons efforts are made by the college to relate teaching theory to the practical problems and issues of the classroom.

Although Dr William Taylor, the lustitute's director, see pust-experience, in-service higher degree and digloma studies as an increosingly important area of the college's work, he is also keen to preserve hitial teacher training work.

"I would like to see a further increuse in the proportion of higher degree students. For a teaching farce of half a millon only a relatively small proportion of teachers

tively small proportion of teachers at the moment do conduct high-level studies and have on operanity reflect upon what they are

In the future, he says, there is going to be on increasing need for specialists in the schools, such us conusellors, educational technologists, and curriculum specialists.
With the advent of a relatively static teaching force there will be fewer apportunities for mobility, emphasis un in-service work is directed towards helpbig to Improve

Joh."

However by retaining initial teacher Iralning courses, Dr Taylor says: "One gets a thuck more runded and realistic pleture than if we were just a research organisation. There would be a daugerous tendency to become stratespheric if that happened. Many of our toachers are very close to the chalk

Looking dack on the institute's echlevements over the past five years, he says he is not "despondent" about the progress mede "against the decline in teacher oducation". The institute hed never been bigger and although it had experienced o difficult period financially, it had not suffered any more than other universities.

cielly, it had not suffered any more then other universities.

For the future has hopes to ostabilish a new chair in oducation hendicep, build up the work in science education, and see more policy etudies being conducted.

Dr Tuylor is also determined to preserve the institute's internetional role. "I do think this is terribly important. I think our educational values and standards are one of our chief exports and one of the chief sources of good will towarde this country. I would hope to see arothing happon that would diminish this influence."



The now building he Bedford Way.

establishments aren't known for the comfort of their furniture. Which is something Parker Knoll could teach them a thing or two about. Our extensive range of Contract chairs, sofas, and tables is just what you'd expect from Parker Knoll.

B

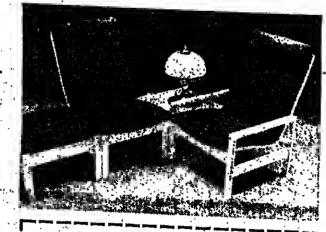
Good looking well made and, of course, exceptionally comfortable,

Literally, yes.

Most educational

The prices won't hurt either. You'll probably find they're comfortably within your budget.

If you'd like to learn more, send us the coupon, now. Honestly, you'll feel a lot better for it.



To: Parker Knoll Contracts, Frogmoot, High Wycombe, Buc Please send me details of the full contract range;		
Name		
Address		
	٠	
		·
		-

Parker Knoll Contracts

Sue Reid on a new OECD report

Lifelong education should be basic right

in education and working life by extending recurrent education, paid educational leave and vacational preparation has been rolled for in a new report released by the Organization for Economic Cooperation and Development in Paris

last month.

It autilities paticy measures to help improve the links between enti-cation and the world of work and puts forward a "hiteprint" of broad nhjectives to be adapted by the Governments of the OECO's 24 member rountries.
The report, Education and Work.

og Life, has been strawn on by a ions working party of garcrament representatives from education and

manship of Sir Hillord Cook, Australia's special labour advisor.

Besides unthaving the use of social selection in education and employment the working party-urges the creation of more equipolate life time upportunities as life time opportunities as one major oidective and wants prermitents to introduce measures tum form clearer, nince consistem

orward-laaking policies. The development of fairer life time apportunities is important for its uwn suke, it marns, especially it, when pulicies are being formulated, the needs of those who sufter the more extreme farms of disadvan-tage are burne in mind.

New patterns of education, regin-There were reasons for believing that the traditional sequence of education, working life and retirement needed to be mudified despite this well-assignment. this still being the predominant pattern of ovents for most workers. pattern of ovenis for most workers.

While the within certain knifts to ceded their within certain knifts in twas necessary to be educated while young and to work when older it was "not entirely natural". white yaving and to work when older it was "not entirely natural". Many peuple were motivoted more to ection than in learning when young end to reflection rather than action when older.

"To promote o mure equitable "To promote o mure equitable of dieribution of education and to expend the members of the faluar force of the return to study, it would be possible to consider a basic right to a certain number of years of education for everyme financeal by a State and brespective of when it is exercised", the report says.

exercised", the report says.

"For those who return to education during working life it may be necessary to consider either paid leove of absence or the payment of personal allowances which could be veried according to the enhologment situation. Admissions priority could be based on criterie such as inck of formal education, unemployment or age with the right to paid educational leave playing a complementary role that could become mure widesprund.

treedom of choice

The need for opportunities for The need for opportunities for recurrent education had already heen recognized by OECI) cuuntries. Wider education and training opportunities for adults cuuld help correct disparities introduced by unequal opportunities and social selection, especially during secondary education, help equalize educational ettainment among age groups, ald the devolopment of

opportunities for adults among age control of the c

ment, income, social status and mobility were interconnected. Some people, aften from favoured surio economic backgrounds, who chose academic or general courses, and performed well had access to privileged positions which were secure, interesting and well paid. For revely, foiled education, training, pnai performance in school, lack of paid performance in school, lack of properties. The properties are properties and properties and properties are properties. The properties are properties and properties are properties and properties are properties. The properties are properties and properties are properties and properties are properties. The properties are properties and properties are properties and properties are properties. The properties are properties are properties and properties are properties and properties are properties. The properties are properties are properties and properties are properties are properties and properties are properties and properties are properties and properties are properties are properties and properties are properties and properties are properties are properties and properties are properties are properties are properties and properties are properties are properties are properties are properties and properties are proper work or access to employment at socially inceptable rates of pay were some of the lusic causes for in

ennalities and miverer. Action to achieve more equitable access to education and employment could significantly belt to reduce poverty and improve productive efficiency us well as heing a value of the may the major raises and the may the major raises and able objective as an important condition of sucial progress.

The report gaes ou: "Action by

education alone may remain in effec-tive if it is and complemented by measures to improve apportunities through life." But it trains that extending the benefits of education mare fairly will entit! several major changes in policy. While calling for better hasic education with a reduc-tion of the arrificial distinction between the general and rocational it emphasizes that lack of money should not hinder transfer among labour ministries under the chair, courses and the introduction of manship of Sir Halford Cook, Aus. more equal apportunities.

Teachers to branch out

"The terms of student finance. shoold enable roung people between 16 and 19 to pursue their education without undire sacrifices by other members of the family."

members of the family."

The divergence between education and working life could be reduced if more teachers had experience of employment in other seriors. This was purify a matter for initial as well as in-service training. Feathers were a case in point. "But it is striking that apportunities for teachers to accuring other combounced."

striking that apportunities for teachers to acquire other employment experience thering their service do not generally appear in exist and at present limited employment importunities outside enteration are inhibiting sume of the mobility that normally tukes place."

Goreyments should consider, with teachers' gapresentatives, paying special billowances comparable with those given in some committee that, or substituding qualifications, or substituding dualities that, or substituding facilities should also be used.

The report comments on the line

The report comments on the long term trends in demand for higher education new spreading among adults and which continued to be governed by the sacial and economic same in required.

The total of these demands is still rising. Although its transposition changes in relation to students. perceptions of cureer prospects the

NUS examines its entrails

If a week is a long time in pudifics, in student politics a decade stretches in elemity and lack. Ten years ago was the beginning of the year of sindent revolutions. In when Mrs Williams addresses the Matinud Dalor of State then it student mayement that has learned in manipulate the official memorandum for more experity than it ever manned the barricales.

hi recognition of the change in and the may the numer russes and spends money will be major topics of debute. Education, minima fees, grapts and cris have also received

But the great raphag of results tions submitted by member mions will not see the light of Blackpoul day. They include motions on History Sputh Africa, richimization, devolution, Uganda, Cyprus and luman rights. Even the burning controversy on Polestine and Israel has his out in the procuaference scramble for a place on the agenda. Among the grand issues, only racinlism and women's rights are

racinlism and wholen's rights are certain to be dehated.

The majon's waiting interest in the wider world does not mean that the conference will be cohorness, however. The practical flavour of the resolutions reflect real and pressing anxieties about the identity of the NtIS, and publical diessions within the student landy are sions within the student budy ore

Acep.
Nowhere will they be brought on more clearly than in the debate over the union's netorious "no platform" policy for rarists and focists. In the heading rish towards grouped life the office unwards respectability the policy has embarrassed the NPS executive and it will be fighting hard in

But there is no way of relking how the voting will go at what is invariably a rabatile conference. The main resultation on tacialism, supported by a susprisingly large munifer of universities and polytechnics ralls for the moon to ratibline in deny racists a plat-farm: "Not to do se implies they have a legitimate point of view and racialist spectors meanably encourage racial violence."

The executive, on the other hand, is determined to reverse the policy. Its note above, which has also commanded extensive support, closus that the most aftern approach has brought the mion but discounted has brought the mion but iscepute and undermined the NIIS national composign obtains ratio-national composign obtains ratio-lsm. Although it loc!riles on excapo-clause that would allow minus to decide locally to har speakers, there seems to be no way of appli-ing a healthing rush between the executive-led moderates and basel.

tion changes in relation to students perceptions of career prospects that tutal demant faw higher education uppeors to be untonomous and not prospects."

The working party concludes:

The demand shows little sign of heling contoined by or edapting itself to limited und uncertain overall employment prospects for graduatee, espacially in the public sector including leaching, which until recantly has absurbed a very high proportion."

A centrel problem was how this demand could be satisfied. It was recognized that bigher clucation had evital contribution to make to economic development and enaployment and thut its cultural objectives hall priority hut it had to he removed that priority hut it had to he resources and uther levels of education, particularly through the creation, particularly through the reation of new institutions of higher technical end yocanlonal education and priority—has heen directly continued and priority that there were limited the diversification of higher technical end yocanlonal education and the priority hut it had to he recontribution to higher technical end yocanlonal education of new institutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of the provided and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal education and the reconstitutions of higher technical end yocanlonal edu





Soe Slipman, president, the Conser-numist; Shart Barliss, the Conser-vallee; and Trever Phillips, national

trensurer and education vice presitheir respectively, are 11th members. The remaining top eight posts on the excentive are also dominated by Report 1 of Brand Left members, and among the entire 17-member committee andy live represent other political grunpingr. Two of these are Con-

anny hyo represent other puditical grunpings. Two of these are Conservatives, and three represent fair Left organizations like the Socialist Students. Alliance and the National Organization of International Organizat

Students Alliance— 12: moster considerable support delegates—the NUS has considerable a 140-cosy relationship.

These splits will be be this treekend even in do. might be expected to said only only of the molecular of the molecular of the molecular of the molecular of the executive's management of the executive's management of the molecular of the molec The long executive ma-

Issues as the recommenda. Mr Gardan Oakes's come to the financing of polytele for the financing of polytele for the financing group, the ingle of the Manpower Service; mission's plans for the percentility of the decision service of the region, in the education service of the region the education service of the region the education service of the region of the colleges no longer used to the colleges no longer used to colleges no langer used in a An amendment tubled by n

of universities and polymerates in very different lie. It is the fulling standards, it say down to n cover for the tank NUS strategy for keeping all within the education at amounts to acceptance 455 present level of teacher entering and NUS "change" and NUS "change". ment " and NUS "chatter" democratizing education as and interplan in a class soring The amendment suggests to NHS should not "crasts in advising the government which committee structures; to have the right to chopeled to should be concerning ight around out, good for

The union's leaders, howen milikely to he apologetic abuse of gradualist negotiation which they believe have bein considerable effect dags

year, In tuition fees, for example will tell delegates that o aguraign has wan consider? cessions from the governor cluding a commitment rape been in real terms next year the setting up of hardbock worth 15m.

The master plan for per !grants campaign, 100, is books tirm belief in the value of 157 thou and consultation with the crimical and other agence executive resulution in granti Secretary of State to contest working party on discrete awardis. The organization of shirty enthemistically ralled "denoted tive action" around the factorial states only fourth place the list.

The emphasis on negotice with government is nothing in realistic. The government was

A master of adult education slips into the driving seat

The inaugural moeting of the new Advisory Council on Atlult and Continuing Education lest month was an auspiclous occasion. There to greet the 22 members of the council were Mrs Shirley Williams, Secretary of State for Education, and the Minister of State, Mr Gordon Oakes.

Both Inoked to the new council, as on independent body, to

as on independent body to strengthen the lobby for adult education and to help forge lluks between formal higher education and the joformel adult education

sector.
There was also mention of the need to secure proper basic educa-tional opportunities for udults; and to examino the educational implications of changing technology, industrial democracy, and earlier

There were o few words of odvice from Mrs Williams, who urged the new council members to ensure their voices were heard. If they felt they were not receiving proper attention, they should make a nulsance of themselves, she

It was a comment that the coun-It was a comment that the councile new chalrman now also New Statesmen chairman, Dr Richard Hoggart, does not intend to oblow Mrs Williams to farget. In part, it is his raply to the sceptles who are dulious about the effectiveness of the advisory council, a view which harks back to the heady days of the Russell Report, which recommended the creation of a development council.

a development council.

Though the Government only established an advisory body, Dr Hoggart says every member of the new council is determined to do his best to ensure that it has bite.

"Shirley Williams doesn't want a committee from whom she hears nothing. She wants the council to get at her, and we will do that", he promisee.

the council'e Independence. Its first session was held ut the Department of Education and Science but no more will be held there. The council is the council of the council is shoring the premises of the National Institute for Adult Educaden in Leicester but this is purely an administrative arrangement.

Dr Haggari feels that the DES will welcome the independent opproach. "We have got the green light. The atmosphere within the relevant parts of the DES is very positive", he says—adding that others have also commented in similar yein.

Dr Haggart can claim a sound Dr Haggart can claim a sound khowledge of adult education—both from the heights of his present position as warden of Goldsmiths' College, London, and attething back 30 years to his early days es an extra-mural teacher in the adult education department of Hull University.

Io his 13 years of Hull, Dr Hog-gart ran extension clusses and WEA gart ran extension clusses and WEA coursee in an area embracing all North and Enst Yorkshire. While at Hull he completed Uses of Literary, which was published in 1957. The book, which questioned the conventional definition of culture and treated working clase culture on a par with established literary works, established his reputation. In 1959 he maved to Leicaeter m

In 1959 he moved to Leicneter to lecture in English, and ofter three years proceeded to a chier at Birmingham. "One of the thinge I wanted to do when I gut the chair was to start a new kind of graduate work within the English department." Out of this move come the Centre for Contemporary Cultural Studies at Birmingham University in 1964, with Stuart Hall oe aselstant director. He is now director.

by Dr. Hoggart, which was highly by Dr. Hoggart, which was examining how been detected by Dr. Hoggart, which was highly by Dr. Hoggart, was invited to join a commission in Paris, which was examining how Britain.

In the mid-1960s ho was invited to join a commission in Paris, which was examining how Britain.

He present post of Goldsmiths' has highly by Dr. Hoggart, which was examining how Britain.

He present post of Goldsmiths' has highly by Dr. Hoggart, which was examining how Britain.

He present post of Goldsmiths' has highly by Dr. Hoggart, which was examining how Britain.

He present post of Goldsmiths' has highly by Dr. Hoggart, which was examining how Britain and recommended that the BBC.

He present post of Goldsmiths' has highly by Dr. Hoggart was an to Friesch was asked to stay for a further to provide a city college in America, providing activation of Friesch and the

In the mid-1960s he was invited to join a committee of the UNESCO international commission in Paris, which was examining how Britain could help UNESCO fulfil its culwhich was examining how Britain the present post of Goldsmiths' As chairman of the advisory countenal role.

Four years later, he was offered the first post of Goldsmiths' As chairman of the advisory countenal role.

As chairman of the advisory countenal role, the seys, given him a new direction for his 30-yeor-old interest ing on two planes—one practicel, in odult education. He likens it to



Richard Hoggart, chairman of the Advisory Council on Adult Education, talks to Maggie Richards

narmally have been attrocted to formal education, says Dv Hoggart.
Goldsmiths' has helpad him to develop a greater awareness of what moves are afoot. One development has a interpretation constitution. Goldsmiths' liself is setting up a centro for the study of the acceleration of the solved by thinking in normal terms.

As chairman of the advisory county thinking in normal terms.

As chairman of the advisory county thinking in normal terms.

As chairman of the advisory county thinking in normal terms.

ell to encourage coordination end cooperation across this huge field of adult and continuing relucation, so that the loss possible use can be made of our resources. There is an airful bit going on which could benefit from a bester exchange of information."

Dr linggart is not 100 despondent about the present I per cent of the education budget which is spent un adult education.

"You don't take it that this will never ulter", he says. "If we feel funding needs not only to be increased, but to be increased as a proportion of the educational budget, then we shall say so. But there is no point in increasing the budget without coordination."

On the Intellectual side, be thinke he can belp define the perspective before odult and continuing education for the years to come, and influenced by hie time with UNESCO he is deeply conscious of the need not only for a national but for an international perspective.

bit for an international perspec-tive.

"There is a great deal happon-ing, not just in Britain, but all over the world. We do tend to be insu-lar. I would like to fit in an inter-national perspective."

He also believes the advisory council has come at the correct moment. "We have been appointed at the right time. Maybe we should have been appointed sooner, but if

have been appointed scener, but if that had huppered we might keyo been full of pessimism. We have to assume we are going to climb out of the trough. Things are going to get better, and more money will be

"The council has to use this time, just when we are turning the when we bave turned it. At our first meeting Gordon Onkes made the point that adult education is going o became more Important in

Already of the grass roots of odult education a great deal is being done for rhose who would not narmally have been introcted to formal education, says, Dv Hoggari.

Goldsmiths' have helped lim to the conceived in the widest scene described the same transfer of these sections.

think there will be increasing pressure to use it for more then just the novmol 18 to 21-year-old full-time etudoni. As it should be."

Patricia Santinelli on a new manual which will help Brunel students improve their ability to study

The process of his learning processes, to make better use of his learning and to use seminars and learning the normal processes of learning the use of his process in the life and the tile processes of learning the use of his learning and to use seminars and learning the use of his learning and to use seminars and learning the use of his process with the process with large the use of his process in the process with large the use of his process in the process with large the use of his process in the process with large the use of his process in the process with large the use of his process in the process with large the use of his processes of learning the use of his process with large the use of his process with large the use of his processes of learning the use of his processes of learning

I from the centre.

This new bible, ordginally entitled Zen and the Art of Getling a Degree, synthesizes much of the expertise the centro has gained since it began in 1969 in developing a theory of learning how to learn. It is supported by toole and techniques which bave proved effective in halping people to become better et learning io, the erts, science, and social

poople to become better at learning to the erts, science, and sold science.

"The centre's work is a means of redscovering one'e own abilities, or happing abilities that one did not know one had, or was not teught to correlate, and thile is what the work hook, attempts to da", said Dr. Said Thomas, reader in psychology, director of the centre and one of the centre and one

provide some feedback ebout their own interession of its yalue. own Interession of its value.

Development of the manual has already cost the centre about £7,000, part of which was provided by the University Teaching Davalopment Committee. The centre hopes it will be bought by students in other institutions so that it becomes viable of inspecially

at tax is read to the second of the second o

-8

Overseas



WAIT is a major terilary institution in Perth, WA providing courses characterised by a multi and interdisolphinary approach to higher education. At present there are over 11,000 students underleking degree or diploms aludies at both undergraduste and graduels lavals. Applications are invited for the academic positions listed below.

SCHOOL OF BUSINESS & ADMINISTRATION

PUBLIC ADMINISTRATION—Senior Lecturar. Teach politics, comparative and local government send government linence. Maintain professional association with Faderal, State and Local Government Parsonnal. Practical experience at one level of Government

ECONDMICS—Sanior Lecturer. Teach applied macro and micro economics mainly to business students. Practical business apparience and qualifications in rointed irrespondence. (Ref. 010)

SCHOOL OF SOCIAL SCIENCES

ECONOMICS—Sanior Lecturar. Co-ordinate end laach basic oconomics in multi-disciplinary Social Science courses in the Department of Social Sciences. Experience required in one or more of the following fields; informadiate informacionomics theory, public finance or macroeconomics. (Ref. 957)
SOCIAL WORK—Lecturer/Senior Lecturer/Senior Lecturer/Senior Resolved (Ref. 951) practica, Practical experience essential, (Ref. 051)

SCHOOL OF HEALTH SCIENCES

PHYSIOTHERAPY—Lecturar/Senior Lacturer, (2 positions). Assist in davalopment, of undergraduate and graduate programmes in one or more of the following: Naurology, Human Growth and Davolopment, Otthopaadies, Cardio-Pufinonary Disabilities and Measurament of Human Parfornance. A background of clinical and/or academic leader-ship and administration preferred. (Ref. 050)

ACADEMIC SERVICES

EXTERNAL STUDIES—Senior Tulor/Lecturer. To co-ordinate external studies programme in the School of Business & Administration. Duties will include teaching and course development. Periodic visits to country centres with a necessary Business/Commerce Greductes with tertinry teaching experience preferred. (Ref. 958)

Oualitications: Senier Lecturer—A good higher degree and contiderable experience, including heritary teaching, are preferred, Lecturer—Postgradunte analytications with appearance, including leaching, are

Satery rongo (sterling) - Senier Lecture:—C12,360 to £14,443, Locture:—C9,206 in C12,170 Senior Tulot—C7,924 to £9,089. (Saterios quotos at Movember 4 roto of exchange: £00,03)2 equals \$A1,00.)

Tenus : Appointment may be eliber Tenurad or tion-leaved for a period up to three years. Canditions include [Taiwod]: Annual, Long Service and Sludy Leave. A choice of Superannuation is available if required, including a school similar to FSSU. Force for lamity, plus continuous in terms of expenses and temporary accommedation, are psychile to appointers. [Non-temporary works] annual leave, forge for lamity, plus come assistance for removal expenses, we psycholoto appointers.

Applications: Octobed applications, including a curriculum vise and the names and addresses at time releases should be submitted not later than Occurric, 31, 1917. In the fifty that taken Color Westman be obtained from the above address. Augustatic Agricultum, A grociante confirming further externation and

OVERSEAS

Engineering Adviser

Appulalments Officer,

Room 301, Eland House:

Stag Place, London SWIE 5DIL

MINISTRY OF OVERSEAS DEVELOPMENT.

HELPING NATIONS HELP THEMSELVES

Industrial

DEVELOPMENT

KNOW-HOW: vital to developing countries

advice, assist and participate in work of Saction; Irain

national staff. Applicants should have angineeding degree or equivalent qualification and experience in an edvisory depectly infinductries engineering including application of industries and in preparation and conduction of industries; also in preparation and conduction of industries;

ment 2 years.
Salery (UK iexnble) in accordence with qualifications and experience plus tax free oversess allowance. Superannualion righle may be naiseguerded. (Ref 317K.)
This poet is wholly financed by the Brilish Quvernment under British's programment and of the deviation of the British's programment and the deviation of the British of th

Britein'n programms of aid to the developing countries. In addition to basic salery and overseas ellowances other benefits normally include pold leave, free tamily pasaegas, children's education allowances and holiday visits, free accommodation and medical ettention. Applicante should be clizens of the United Kingdom.

and medicin enterprise and implication form plusse apply, quoting reference number, stelling post concarned, and giving details

finen applying pleaso quate position and reletance number plus modificade ties.

THE DEPARTMENT OF ACCOUNTANCY

has vocamelas in

PRINCIPAL LECTURERS c. £10,867-£13,179

Financial and/or Management Accounting. Candidatas for one of thase vocancion should have on interast in the use of computers willing the situa

A dagrae or profassional qualification and an advanced specialist qualification or extensive experience in a specialised field and substitution to the commercial experience and to the commercial experience and to the commercial experience and the commercial expe

LECTURER in ACCOUNTANCY C. £4,758-£8,802

A degree or professional qualification or at lenst an appropriate Higher Diploma and at laast 5 years' prolassional or industrial/commercial experience or at least 3 years' leaching experience or a suitable combination of professional and leaching

Appointment will be on a two-year gratuity hearing contract terms initially. Thereafter smitable spointees may be offered further contracts or of the Polytechnic. Point of ontry hilo salary scale (converted at HK\$0.6:=£1 on 17.11.77) deponds on qualifications and experience.

25% grafully on salary
 Free passages
 Flee modical bealmont
 Education allowsness

b Low lar area

Bovon person

School person

School person Application form and further details from the Recruitment Unit, TETOC (Tochnical Erlagation and Trilling Organization for Overseas Cruntras), 35/37 Grosvonor Gardons, London SWIW ORS. Rel. HKP/THESS.

CONTRACTOR mental Teroca

Head of Department **Mechanical** and **Marine Engineering** c.£15,969

This important post is open to candidates with a higher degree, a flair for menagement and who have academic and industrial experience at a senior

Appointment la toneble immadialely find will be on e gratuity bearing contract of negotiable length.

- 25% gralpify on talary
- Low lax area Generous lesse
 Subsidised accommodation • Erec medical treatment
- fastalleg afformantes

Thailand

School parsages Further details from the Recruilment Unit, Tetoc (Technical Education and Treining Organisation for Overseas Countrias), 35/37 Groevenor Gardens, London SW1W 089, qualing ref. HKP/THES, Closing data 19th December, 1977.

FOR A FURTHER SELECTION OF

PLEASE SEE **PAGES 22-27**

Colleges and
Departments of Art

the amount when a mumber of vice
thancelors were complaining about
the financial constraints upon unithe financial constraints upon unith

Annual livid in pages of the following state of the following state of the following state of the state of th

In a comment on my letter, Sir Frederick Dalnton, the chalrunn of the UGC wrote: "The rolationship the UGC to the DES is precisely Solary on the seals to senior teatment on Scale of Scale

HOVAL COLLEGE OF ART (god or bad) for changes in definisirative arrangements. But the must go farther and osk whether it is languable that the A PATALISHIUM is request
to the responsible for cleantion in the responsible for cleantion in the today after the right
tot. I to training in at, doing
to at the tipe in second
Lanciers in secure regard
to intitle along a network
for the first along a network
for the first along a configuration
for the first alon Later on some the later

Appointments Wanted

Awards

READING
LABORITE RAIN SCHOOL
Library we be be a signification of the signification of the signification of the signification of the significant of

Administration

LONDON THE UNIVERSITY New Cook, London 8514 600

DUAN OF ADMISSIONS DEAN OF ADMISSION And Interest of the second of Oran of Admire the second of Oran of Admire the second of the seco

CLASSIFIED ADVERTISEMENTS

How switch to DES financing has changed university life

Max Beloff replies

to Sir Frederick

Dainton's views

independence

of the university

Grants Committee

on the

from the

Government



THE TIMES HIGHER EDUCATION SUPPLEMENT 212.77

in a letter in The Times, home 28,

ere normally substantive reasons

denge made no difference, given the totally different untures of the

to departments concerned.

Professor Max Beloff

case of the universities is not given adequate weight?

If one looks in the whole trend in development aver the past decade, one perceives two processes going on sido by side; the universities from being individual institutions cherishing their differences and their outdoomy have been welded into a single system, doing more and more with a speaking more and more with a single voice; and o Government department trying harder and harder to compel the universities in accept lis non principles and its non presented by the British Connell or the Ministry of Orerseas Development, Our experience of Buckinghams suggests that there is an improvement in bucd with the scattenile tradition, because they olways intach more when students are important education of individual who can benefit by university full social functions of various useful its non principles and its non presented in the processor students in appropriate of overseas students in appropriate on more processes.

And governmental canton can be decentable to those interest of the British Connell or the Ministry of Orerseas Development, Our experience of Buckinghams suggests that there is an improvement in student marele when students are important marely learning to play the British Connell or the Ministry of Orerseas Development, Our experience of Buckinghams suggests that there is an improvement in student marele when student marele when students are incomply in paging the noked reality of orerseas Development, Our experience of Buckinghams suggests that there is an improvement in the indext reality of orerseas Development, Our experience of Buckinghams suggests that there is an improvement in student marele when student in the call that there is an improvement in the individual

ferred methods.

The old UGC system, so much industrial by foreigners, worked becomes British universities had other significant sources of funds, becomes they only affected minority in the nation, and had been subjected to external interference only when their prejudices conflicted with overriding national goals—for last stace, religious consistent.

of course, Sir Frederick was concerned.

Of course, Sir Frederick was concerned than the committee retained the right in oding the government. What would spear, however, from the divergents that have emerged hetween but the universities say they want and what government does, linds to olternative hypotheses. Either the advice the UGC givas is not representative of the university community—or it is representative of that community hut is ignored.

Another symptom that the old.

the State and the universities in the traditional formula, the UGC



(und performance) and with grants

tions and the DES should cease to be the grant-giving body for arts graduates.

How would the universities find the money for this, for expansion, for new developments, for such running costs as it would not be saltable to charge egeinst student lees?

The answer lies in what was done in the founding of colleges in the nuclent universities. What the universities need is not income daponadent upon Parliamentary grants, but copital of their own. A formula should be worked out by which their current incomes would pursue if they had greater independence; one must be studies only; others for pust-graduate studies only; others for pust-graduate studies only; others for pust-graduate of work oud so on. Some might prefer to reverse the trend towards growth in numbers or the expense of quality imposed upon them by recent governmental policy. If this meant e domaging short-full in the provision of places, it would be for the Stint-system proper, the polytechnics to take up the slock. similar universities and other individual construction in the construction of the universities and other significant sources of funds, become significant sources of funds the universities fund the monor of new developments, for such run-not precipile of university autonomy with the fuct of reconciling the principle of university autonomy with the fuct of reconciling the principle of university autonomy with the fuct of reconciling the principle of university autonomy with the fuct of reconciling the principle of university autonomy with the fuct of reconciling the principle of university autonomy with the fuct of reconciling the principle of university autonomy with the fuct of reconciling the principle of universities fund the monor of reconciling the principle of universities fund the univers

They would then till e the inde-pendent schools) become responsible for running then own familied affairs, for choosing whether to hold government stock or to resitivit; they would profit by success and he penalized by failure. Earli would be independent of the others, and competitive. From the national point of view it would mean a trans-fer of liability from annually voted grants to the servicing of the national debt; for the universities it would mean freedom from gav-eramental control.

From the point of view of research funds, the important thing is to restrict the direct intervention of restrict the direct intervention of government-sponsored hodies such as the research councils which only handle research directly related to governmental policy. For the rest, the uvailable income should go, prelicially again capitalized in government stock, in part to the universities—particularly the great ones—and in parts the calculation of the control of the and in part to the scientific learned

It is likely that however ingeolous the original formula for replacing the present system might be, modifications would be needed from time to thue. Extra funds might also he needed to cupe with inflation are other developments. Some Minister would be needed to have any necessary arouses to buildment. ster would be needed to make any necessary proposals to Parliament. He should not be the Minister responsible for calcentian, or any other spending department. The DES should be split up, with the "science" removed from the Secretary of State's title, Instead there should be another Secretary of State for Science, Learning and the Aris who would, like the old UGC, need to gn direct to the Treasury to argue his case.

Historical experience and politi-cal thought teach us that may men who have property can fully enjoy freedom; the only genuinely unto nomous bodies are also the property-owning ones. One cannot, of course, know what policies the universities would pursue if they had greater independence; one want accurate

Ways to curb the resource wastage in duplicated courses

Ways to curb the resource wastage in duplicated courses

Ways to curb the resource wastage in duplicated courses

Keith Hampson examines

the costs and

Keith Hampson examines

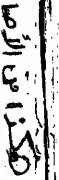
the costs and

Consequences of

C

The nuther is Conservative MP for Ripon and vice-choirman of the Conservative Party Education Conmittee. A longer version of this article appeared in the October issue of Public Flindite and





HIGHER FOUCATION SUPPLEMENT New Printing House Square, London WOTN 8EZ, Telephone 01-837 1234

Cash limits begin to bite

When the universities' recurrent are pushing this averall increase secon for the present academic year for above lil per cent. was announced of the end of March, they breathed a collective sigh of relief. The reduction in real terms compared with the previous year seemed to be anly one per cent instead of the four per cem for which Sir Frederick Dalmon has searned them to steel themselves in the pre-

that this first assessment tens for optimistic Professor Alwan Wilsity, has calculated that office all the time rathe of this year's grant has declined by more than three per of defence may that the first line, a renewal of the social contract with the TPC, has failed and the second, an obstrary III per cent limit on that his university could well face a deficit of more than £200,000 this year and that the prospect for the following year, 1978-79 was even

The reason for this sudden deterioration on the financial prospeers of universities in eight shore months is that the Government has not been able to keep the lid as tightly on wages as it had koped. In the spring they expected to keen the overall firrease in wages to much less than 10 per com-sweetened by tax ruts. It was this warealistic assumption about wage inflatian that was used to calculote the universities' grant lost winter. So even the 10 per cent limb is probably higher than mony priversity hudgets can tolerute without punic cuts ur alarming deficits. Now even the attempt to keep the overall increase in wages in 10 per cent loaks vidu. Every day productivity

When Mrs Williams aummined the grant, she did primise in a rither apaque phrase that if the pace of pay and price increases was "substantially higher" than those assumed to calculating the cash grant the theorement would be presented to pared to review the position. I seems pulikely that the Government them to steel themselves in the pre-vious autumn.

Now the signs are outliphing that this first assessment tens ton optimistic. Professor Alway Wil-dows, principal of Glasgow Univer-tions, Alary of the first cash

Universities can probably live with the difficulties caused by the inadequacy of this year's grant. Certainly they have no other choice at the moment. But what about next year? To maintain the present level of public support for universities would require an increase of more than £13tm in their current income—grant, lees, and compensa-int for rates—next year. Even with the promised I per cent cut on extra 1120m or more would be needed. It is easy to see how the Covof this apparent unguitude. But if they do universities, will be back on the allepery slope of 1974 und 1975. They have hardly recovered from the damage, psychological and material, done in those years. To be obtained to the product of the control of the contro plunged back into a similar or even wurse crisix xu snon world com-pound that duringe. The universities loaks with Every day productivity must summan up every made of deals and new avertime arrange influence that passess, private and ments are held argumental which public, to avoid that gluony fate.

Adult literacy in future

represent only S per cent of those who need help.

literacy techniques,

Now, with the Rute Support Grant settlement still very much in mind, lacal authorities can be expected to begin looking closely of thuir literucy provision. It is vital, therefore as this catalant mount that flerucy provision. It is vital, therefore, at this critical moment, their the impetus of the campaign is not seen to be lost; that there is no hintus between the furious compalgaling pace of the early days and the more subdued approach which may be expected from the Advisary Connell in planting the languages.

Sindents and rent
Sir,—I was extremely surprised to sae that Mr St John Stevae MP has called for an end to students' security of tagure in palyage. Council in planting the lang-term

Althaugh they only praylde 5 to 10 per cent of the arganil literacy tuition, the voluntary organizations are performing a crucial task. They must continue to receive sufficient

LETTERS TO THE EDITOR

Universities of technology

to his ophica concerning my firness to contribute to discussions on the future of ligher technical edu-cation (THES, Navember 25) but his letter calls for a reply because he does not seem to have re-searched his material and as a result he has missed the point I was mak-

My views olout the demise of colleges of advanced technologies (CATs) and their conversion into universities were gient in the dis cussion at the conference organized by the Southern Group of Polytechnies in confinerion with the Insti-mics in confinerion with the Insti-mion of Mechanical Engineers on the subject "Updating engineers in industry: a polytechnic way" (a detail omitted from the necessarily shirt but otherwise accurate report of the day's praceedings which appeared in The THES on Navem-ber 18 and on which Dr Edwards

This conference was attended by some 1101 industrialists and, monthy, polytechnic academic memhers, and was examining in inday's hers, and was examining in inday's context the same problem as we facing the same problem as we facing 20 years ago tylen the room-try decided than we needed a much more effective form of higher technological education and training. We decided that a rapid expansion of this form of education was associated for protocytic popular. of this form of education was easen-tial for the wellbeing of our indusry and eranomy.

Technology was identified as a key discipline demanding the hest of intellects and abilities, and havng been clusely associated with the development of education and training both in the north-west and elsowhere for nearly 40 years I think I can say with confidence that I

The rection of CATs gave in my vier, the unique solution in our problem; by the occupronce of the term "technology" in the title of these new institutions, reclina ngy itself was recognized, the expanshor of the (then) new sundwich paished of the (then) new sundwich courses created new positive rela-tionships with industry. The adop-tion of the qualification (PhPreh was itself indirative of a new recop-nition of the partnership between these institutions and Industry.

Tha CATs and the DipTech were this country's subthat to the much onvied cartinental histrations of Higher Technical Education which have those in much to make tain and cultance the status of engin-cers and technologists in Europe. I said this and more at the confar-

The CATs were not tied and did nat seek to copy the arthudax interesting academic patterns: flexible patterns af trsining and education emerged. The training leads both in the foctory and in the college were more closely halanced.

November 25) and effectively a

lical employment or vocational training would be furced out of their accuminodation whilst there would be no change for the would be no change fur the majority who presently leave their tenancles after college to take up into solsewhere. It is remarkable that un Opposition spokesman odulum provides security in tenants un the busis of the type of letting, and not ectively the status of the tenant. Where the status of the tenant. Where the status of the tenant. Where the status of the tenant. These absertation bearing the status of the tenant where the t

SSRC grank

Science Research County grounds, First, because by that the general responses SSRC in failed spoon research grants is any tenre"; and secondly, be deduces that application sums have a greater por

The subject committee is spend considerable time applicants to formulate posals, and do what the mittees to applicants A tence" rejection is nome given when it seems ries, f comments of commins referees, that a revised a would be very unlikely Dr Sulter recognizes has

more senior and expense dendes may be more a identifying research sreaged identifying research so tugether better research so. The implications of his section of the transfer of the section of the sect and more influence on the lest committees " would be district.

they were true.
The Salter uses figures for 1975-76 SSRC numual not justify his statement thanks ress rate by nomber of apply and grants for research proper was 73 per cent. He must this that "if you want organ from SSRC, think big Le generalizing from ane years." The figures for 1976-77 was listed some typeks ago. Eq.

Salier's approach, the compa figures of percentage sates by number of applicates grunts are:

grunts are:
Research programme and top
profects fover (50,000)...
Profects (16,001 to (50,000)...
In that year, there were to
applications, only olde d'alwere successful. This don't sorily mean that "if you's
get maney from SSRC, that me
We do, however, great to
the profilence of establishing are
the profilence of establishing are
structure for research water. structure for research usua-his end, SSRC has set up 1 Res tureers Exploratory Paul de by Profession Haymond History it is haped will report in 184 Yours fulthfidly, DEREK ROHINSON,

Chairmen, Sarial Science Research Con I Temple Avenue, Louden, EC4,

Laudon RMC

so alsa kept condunually to this fore by eccurrent reference ro Karka and Ellat who are determining figures in this version of modernism and further cuberence egain is given by the bonk's concern with thomas Meon's novel Dr Faustus which Justpaviel finds to be a fascinating, if in the modernism and of the mideral finds to be a fascinating of the modernism and of the mideral finds to be a fascinating widely over European and American literatura and madern and maderican literatura and madern and maderican structures in whoth the experience of madernism is most additional forms which in the end pravokes me within it as which is the end pravokes me which in the end pravokes me to sme which in the end pravokes me to sme which in the end pravokes me to sme to some dissent.

When I say lite the central for the modernism by Gabriel Josipovicit, Macmillan, E8.25

We have a find the structure of the control of the structure of the modernism is most to some dissent.

When I say lite the central for the modernism is most to some dissent.

When I say lite the central for the modernism is most to some dissent.

When I say lite the central for the modernism is most to some dissent.

When I say lite the central for the modernism is most to some dissent.

When I say lite the central for the modernism is most to some dissent.

When I say lite the central for the modernism is most to some dissent.

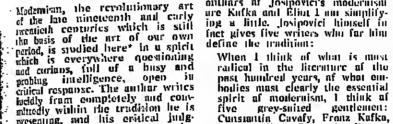
When I say lite the central for the modernism is most to some dissent.

When I say lite the central for the modernism is the control of the modernism is the control of the control o

An art for the wilderness

The real greatness of modernism lies in its grasp both of predicament and release, simultaneously, as the twin products of the ambiguous death of theology'-Michael Long discusses and takes issue with essays by

Gabriel Josipovici



presenting, and his eridical judgments have the life and generosity of an engaged mind—a generosity which is rore enough in the often mean-minded world of literary The English hove not been the although Pessaa has a most interesting essay devated to him (as in Walier Benjamin and Suul Bellaw) he is nathing like so deeply lot the book's grain as Kufka and Eliat. It is always asost powerfully in them that we are given the characteristic undernist sense of predicoment is torment, doubt, for illity, hroken gestures, sundered bellefs, loss of mayoment, action and rhythm, the English nove not been the best critics of madernism, no more than they played any very great part in its creation. An embarrassing amount of the "English" literation.

onthars af Josipovici's modernism are Kufka and Eliut I am simplifying a little. Josipovici himself in fact gives five writers who far him define the mediant:

When I think of what is must radical in the literature of the meaning and is thus answerable to make hundred years, at who combined with the past hundred years, at the latest with the past hundred years, at the past hundred years, at the latest with the past hundred years,

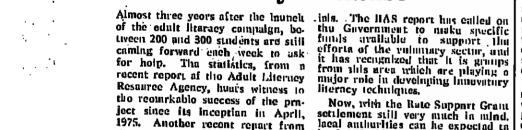
The English have not been with the state of the control of the con

Celebration

But in neither work are prolicoment, the encopiony of words and eventual dufeat the whole story. There is also a comic occeptance of the varieties of fiction and doctrine. Au ironic celebration of the mind's ability to make an many words and tu survivo (more or less) amind their Babel rises inexorably out of and analy the parato and encoping it were none the deepest root. I hope I may be gradual emergance of this pone,

where madernism has still not taken the daspest root. I hope I may be forgiven for wishing it were none tha less slightly different and for straying somewhat from its main concerns. But it is only good backs which provoke and thus fur. I musure ir will do the same for loany other readers.





1975. Another recent repart from the British Assaciation of Settleorents, which he 1974 was at the forefront of the drive for e national literacy campaign, has estimated that the 100,000 people who have taken advantage of the scheme

It is now more than a month since Mrs Williams, Secretary of State for Education and Science, annaunced that the Government's edult litoracy pump-priming exerciso

adult literacy pump-priming exercises of the last three years would cose max March. At the some time sho commissioned the newly-firmed advisory Council for Adult and Continuing Education to work out of culterent long-term strategy for the whole field af basic education.

As yet there is no indication of what is to happen in the immadiate future, both to the agency and to the small group of voluntary budies who here largely relied on the pump-priming facility to finonce their literacy operations. The accommended that the egency should became a central facus, serving local education or authorities and voluntary organization authorities and voluntary organization on a national advisory and consultancy basis. It would provide assistance with training, promote good stance, with the control of th

Aufortunately, the national tide for the expansion of university education, us a result of Rubbins, swept away the CATs which were replaced by university foundations. The CATs were not allowed sufficient time to establish themselves and the DipTech was written out.

For a while the universides which were created from the CATs were known as technological univer-sities but apparently they did not have sufficient faith in their future have sufficient faith in their tuning to relain the term "technology" in their title. Only one antiversity fainted on a CAT retains it.

The expansion of university education was no doubt needed but this model from book done while

cation was no minim neered one this could have been done while retaining the CATs which were clearly identified with the development in higher technical education which we are still secking today. Yours sincerely, R. F. MARSHALL,

Sir.—You report Mr Ronald F. Mar-shall of the British Airways Con-poration as stating that "There was to correct the record?

All of the ex-CATs still exist as independent universities of reclini-logy, though they have all been finuncially betrared since their "upgrading "in intiversity status. It is true that Laughburough alone has retained the "technology" label in the name of the university, (bough at firmul we still award the flachefor of Technology degree, reflecting the original DipTech award.

Equally, 1 believe it is true that hrunel alone has remined the thin sandwhe structure for all of its undergraduate courses, so that all students work in industry for three Students work in industry in teres Separate periods of six months each as part of their study programme.

The financial denrivations we have all suffered since becoming the furgation universities—Mr Prenthe telling us in "sell our trea-sures", for example—have out us under tremendars pressures to abandon the more expensive technological alsolutines in farour of the mountiles, and to abundon indusirlal training to save fluited staff time and travel famils.

To weather the storm we have all had to give up some of the high ideals of the original CATs, retaining these features which we ench cunsider to ho the must important. It is not encouraging to realize that our efforts can be so easily disregarded.

Your faithfully,
M. L. V. PITTEWAY,

Professor of

Prufessor of enumpular science, Brunel University.

security of tenure in privately rented accommadation (THES,

Over the years, the National Unian of Studeots has stressed that etu-

Sir,—The caption RMC alside for more funds given to get the news report of the abservational ive, the London Regional limit we, the London Regional limit was to committee the submitted to the full committee that the observations. First, the observation our ulucervations, a point sight word quite clear in the specific word quite clear in the specific ventence of the 10-page meant of the contained and which the specific contained and which the specific paragraph of your report is in and, secand, in no sense as it throughout the century largely due to the agu of its stock, and land-lords' unvillingness to maintein their dwellings. His proposal would leave students valuerable to those forms of obuse which the Govern-ment has stoted it will not tolerate in the neighbor control sector. paragraph of your report with and, second, in no sense with a little training that we used to it culturize our generalized that it could financial support which your report specifically which your report specifically with the concern, however, he can be a concern, he ca in the private rented sector.

Students who wish to take up

market Materminants t organizational canflist On the question of housing associations, surely accommodation for students should be seen within a community-hased pulley, that seeks to extend student involvement in existing associations, and to integrate young people with the rest of the community. Student-only housing associations are not the answer! time structure of casts and mission costing for decisions on leave allocation.
KEITH ALAN-SMITH,

Director, RALPH HORWITZ. Visiting fellow, London Regional Manager Centre, Serent Londons IL Rogent Street Landon





THE TIMES HIGHER DATES.....



Kalks (abave) and Ellol. Modemism, the revolutionary art of the late nineteenth and carly menticth centuries which is still the basis of the art of our own

Arms Control and Europeon Security
by J. I. Coffey
Chatto & Windus for the International Institute for Strotegic
Studies, £10.00
ISBN 0 7011 2118 1

Professor Coffey is a leading thinker on stretegic and military offeirs, and it follows, as we might expect, that he is both an American and a civilian. His new book has e simple thesis. Europe is divided into the

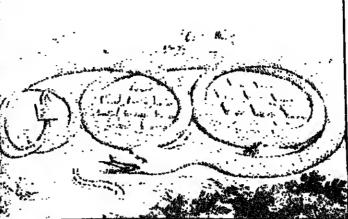
to risk disappointing some of his adulters by indulging to the wearisome process of "scenario" building. That is to say, instead of measuring his suggestion against the facts through the medium of some theory or model of arms control, he chooses to ignore any possibility of making a priori possibility of making a priori generalizations and to concentrate on us wide a range of invented instances of how B might react to A's doing X as he has room for. What suit of cuts in armaments would be suitable of particular stretches of the NATO/Warsaw Pact border; what combination of nuclear and conventional cuts would he suitable at each place; and what allowance should be made for the differences in the readiness and differences in the readiness and competence of the men under arms in the different sectors of each elliance, are the kinds of questions

thesis. Europe is divided into the armed camps of the NATO and Worsaw Pact military alliances. Both speed heavily on armaments but fail to obtain proportionate introvements it security. Coffey suggests that greater security at less cost might be possible if eoch side were to forgo those classes of armament that the other found most threatening.

Having stated his thesis with his customary clarity, Coffey proceeds to risk disappointing some of his admirers by indulging in the wexti-

the book commins a great deal of useful information and is marked by ome impressive analysis. The authors have ranged far and wide in amassing their sources—the use of literoture is particularly striking—and they have both spent time in Hungary. The text shows their intimate understanding of the country's system, one which obviously goes boyond published material.

Some of the chapters cover ground that hos been hitherto unexplored in English. Among these ead discussion of the legal system ead the judiciary. From this, it smerges that olthough political fectors still have on importance, there has been o graduel move away from the total politicalization for the law, as under Rákosl, so "that serving the political ends of the regime is no longer the make the political ends of the regime is no longer the make the political ends of the regime is no longer the make the political ends of the regime is no longer the make the political ends of the regime is no longer the make the political ends of the regime is no longer the make the political ends of the regime is no longer the make the political ends of the regime is no longer the make the political ends of the regime is no longer the make the political ends of the regime is no longer the make the political ends of the law, as under Rákosl, so "that serving the political ends of the regime is no longer the make the political ends of the regime is not longer the make the political ends of the regime is not longer the make the political ends of the law, as under the political ends of the regime is not longer the mobilization period would be any ledger some the mobilization period of the mobilization period of the mobilization period of the mobilization period would be avayleded some vital insight into the nature of the mobilization period would be avayleded some period would be a support to the period of the mobilization period would be a support to the period of the mobilization period would be a support to the period of the mobilization period would be a support to t



Czech winter and spring

Czech winter and spri

recommendations and potronoge in the eighteenth century. Aport from the eighteenth century. Aport from confirming some well known fectures of the Scottish political network, it suggests that Smith's toato in public friends was both realistic and eelectic; and that in the cese of leading public men it inrecly aroso out of his need for support and information, and their need to call upon his expertise.

Nevertheless, the most abiding impression is one that rainted to the quality and mode of conducting that ort of friendshin, and is perhaps hest illustrated by the letters to and from Dovid Hume. Smith shows himself to have been assiduous in performing sorvices to his academic colleagues, nuplis and patrons, and loyal, perceptive good-humoured, and even ployful with his close friends. While this book is indispensable for Smith scholars, it will also be delightful to browsers.

Thought, but there is quite a strong divergence from traditional ldens about the identification of Montesquieu with the cthos of his own class, the noblesse ile robe.

Profossor Hullinng regards Montosquiou as an opponent of loter mediary powers, whether these be tha caste nobility or the legal and bureaucratic functionary class of the robe, just os much as an opponent of an absolutism. There is much as an opponent of one a strong divergence from traditional ldens divergence from traditional idens and bout the identification of Montesquieu with the cthos of his own class, the noblesse ile robe.

Profossor Hullinng regards Montosquiou as an opponent of loter mediary powers, whether these be tha caste nobility or the legal and caste nob Donald Winoir however, the book will provide

Electorel Pressure: A Study In the History of Victorien Reform Aditatione

D. A. Hamer £11.50 HARVESTER PRESS

trated volume." — Library Journal. Color fron-lispiece, 36 black-and-white illustrations. E14.90 Primitive Christianity JEFFREY BUR-

Lafayette in the

TON RUSSELL. Illumi-

E

Edited by STANLEY J. IDZERDA. "This significant and skillfully edited book is the first in a multivolume precentation of Latayette's papers...An informative and beautifully illus-

nating a compelling top-ic, this generously lifus-trated book drews upon a vest number of sourcee from diverse culturas By ELIZABETH POLWHELE. Edited by JUDITH MILHOUS end ROBERT D. HUME. Daling from 1871, and believed lost until rediscovery of the original manuscript in 1974, this racy romantic farce introducea reedars of Reeloretion litereture to a "new" playwright. "A lively, bawdy entertainment." to trace the early davelopment of the concept of evil. "Leerned end maeterly," — Kirkus Re-views. 50 bleck-and-while illustrations, £11.25

CORNELL UNIVERSITY PRESS, LTD. 2-4 Brook Street, London W1Y 1AA

-Library Journal £6.50

In published—complete survey of current and recent work in artificial melligence, the acteure of making melligence to things which would require incline to the acteur of making melligence if done by people. Commonicates the nature of this work philosophical way, and confronts the questions of what are the philosophical psychological and out al implications of A.I.; Tancas Sudies in Cagnitie Science.

MARYISTER PRESS - 2 Stanford Torrace - Hassocks - Sussex



GEOLOGY AT MIT. Robari R Shrock

Prolotsor Shrock presants biographies of all 53 prolossors who have served the department (now the Department of Earth and Planetary Sciences) during the Department of Earth end Planelary Sciences) during the lirst century of MIT's existence, with their portraits and bibliographies of their publications. They range from William Barton Rogers, the geological who founded MIT, to Gatte Simmons and Frank Press at the beginning of the department's second century. Between are blographics of auch notable corth scienties as Alphaus Hynti, Thomas Sterry Hint, Thomas Jeggar, Hervey Shiner, Raginald Daly, Weldemar Lindgran, Mattin Julian Baragar, and Patrick Hitrley. Decamber, £17.59

The foot two littae nro now nynliable in the introduction to Systematic Geomorphology Saries:---

Dasert lendforms and landforming procasees in a range of physiographic sellings are discussed libratic a recurring theme is that the geomorphic response to desert climatic controls is profoundly influenced by alructure and major ralias. December, £10 50

The Massachuselle Institute of Tochnology



126 Buckinghom Palaca Road, London SW1

"We are all followers of Montesquieu

So begins e penetrating new analysis of this 18th century French lawyer's contribution to social science - and to society.

The writer is Salvador Giner, author of "Mass Society" and Reader in Sociology at Lancaster. In this week's New Society he launches e series of new articles on "The Founding Fathers of Social Science,"

Like its forerunners, the new series gives a crucial historical perspective. It will include Freud, Adorno, Gramsci and other

IEWSOCIETY

The Sea in the Shell

August Closs

The See in the Shell is a collection of essays, some published before, others published for the first time, on literary topics which reflect the wide-renging nature of the author's scholarship. Professor Close writes with the same sense of commitment whether he is dealing with authors such as Herder and Schiller or with more contemporary issues such as the changing nature of tragedy, lyric poetry, literary criticism or the problems of translation. All the asseys are topical in that they either deal with a metter of current concern or ere re-essessments in the light of contemporery thinking. Three 'Reminiscences' recepture some moments in the life of a much travelled scholar.

> HARRAP@BOOKS 182-184 High Holborn, London WC1V7AX

£7.65 net

Manuscripts

Late Antique and Early Christlan Baok Illinaination by Kurt Weitzmann Chutto & Windus, £4.95 ISBN 0 7011 2243 9 ipain in the Middle Ages: From Frantier to Empire by A. MucKuy Mucmillan, £8.95 and £3.95 ISBN 9-333-12816-8 and £2817-6

The foot two littes no now nynitable in the introduction to Systematic Geomorphology Saries:

HUMID LANDFORMS, Ian Dougleo

The author dicusses humid leadforms from the elandpoint of the humid tropica, and demonotrated that the processor creating and callrying lendforms are sled that processor creating and callrying lendforms are sled those that regulate biotic activity at the earth's auriscs. December, \$210.50

DESERT LANDFORMS, J. A. Mabbutt

Desert lendforms and landforming processed in a range of physiographic sellings are diocussed hore; a recurring theme is thet the geomorphic response to desart climatic control is profoundly influenced by alrue
Time and chance have precladed the allustrates the interduction and intelligible. It is ease is that this was no regrelable interducte between the fifth and the eighth centuries, and the trivial part of the historical process of which they too were that they are divided the services of the distorical process of which they too were the trivial process of which they too were the ottention at those who are not committed Hispunists.

Time and chance have precladed the survival of all but a handful of the allustrated monner climbed interducts between the climbed the servival of all but a handful of the allustrated manuscripts of the allustrated monner climbed between the fifth and the eighth centuries, and the trivial part of the historical and antical process of which they too were that the services of which they too were the ottention and empire, but a landforming process of which they too were the trice survival of all but a handful of the allustrated manuscripts of the allustrated manuscripts of the allustrated manuscripts of the allustrated manuscripts of the allustrated the climber of the part of the historical and the cast of the allustrated manuscripts of the allustrated manuscripts of the allustrated manuscripts of the allustrated and the cast of the allustrated manuscripts of the allustrated manuscripts of the allustrated manuscripts of the allustrated manu

Castile

Professor Weitzummi introduces his excellent book with a learned survey of the history of manascript littastrotion so fur as it con be traced by us; a hibliography, and o register of plates with noteo an the manuscripts, fallow: then come the colour plates which are the core of the book. committed Hispunisis In the first half of the kank Moc-Kay describes the characteristics Kay describes the characteristics of Spanish socicity up to 1350, arguing dat it was still dominated by the frantier situation until the last great African invasion was repulsed. In the second, his aim is to show how those characteristics influenced do Spain we have all licord about. Properly, he never shaws us Spain as an empire and he never enlarges on the distinctiveness of the society. Weitzmonn has selected for reproduction the most typical and benutiful of the surviving pictures, equipping each with an elaborate and perceptive commentary. Here is the elegant vignette of churiotecre on a papyrus seran from Antipoe

on the distinctiveness of the society he denicts among the oocietles of medical Europe, although in des-cribing Spaln he gives many clues the elegant vignette of churioteers on a papyrus scrap from Antinoe (but the colour-washes of the original are much more delicate thou they are shawn in the plate); the commanding figure of Achilles, and o locale inttle-scene, from the Ambrosian thind; the pale, nulve figures of Tityrus and Mellhaens in the romains of Vergil; the exquisite budding violet af the Vienna Dioscurides. Within each holf of the bank, we within each holf of the bank, we are given successive chapters dealing with different aspects of sneight rather than an attempt to trace the process of change within it. The nation makes for rather breathless political skeiches but gives roum far in attractive and careful onalysis, which leaves the render to work out the implications.

Then the biblical manuscripts,

currfully secretical alount their limits. The treatment of commonies is like this tea. Mackay is up to darie and be undurstands the camplicated anguactus well. Those whit takes the dynamic composition in the specialist work will find much to amplify what he has said and little in cames to discuss the constitutional patterns of the Spoulsh kingulons that he is most and empired by the variety of his political narrutive and by the variety of Spanish experience. He contymouth them the bald contrast between a rather optimistic view in the monorchy in Costila and the situation in the crown of Arogon could appear both mora sweeping ond nore important than it was.

After 1350, tha job of orgonizing the results of the reader of the contrast book bocomes much more differ.

The critical reader nay occa-

so often emphasized in pronouncements. But, as shows, oven when the estatement was thus united, it had twith the cherisms, and political muscle, of the monko, es softenpointed of orthodoxy, were and both emperor and parist stantinopla's mob was a flexion of its Roman preciped the monkish oratory could in monkish oratory could in

them will be able to supply without consulting the excellent books available in English on sixteenth-century Spain.

This is not a reference toxtbook; it is, however, a bold and successful attempt to convey the challenge of a difficult period. Careful crilishend in other languages, a glossary, and e selscilon of notably who are, to use MacKay'o favourite pariod.

Peter Rycroft

A new ond updated cdition in Modern British Society. A Biblion in Graphy by John Westergaard, Annow Weyman, and Paul Wiles has just been published by Prances Pluter Utd. Unlike the old spiral version, in a difficult period. Careful crilishend in other languages, a glossary, and e selscilon of notably who are, to use MacKay'o favourite pariod.

Peter Rycroft

The contents include the following areas: historical introduction, closs structure, economic and industried pranical manufacture, education, government.

Peter Rycroft

Heresie

The Byzantine Theoris by Sieven Hunelman Cambridge University 1 ISBN 0 521 214017

lesus Christ was "one and possibly the me limmon beings who s Thus spoke one of the The Mpth of God las recent press conference scription would not be Arius ln tha fourth co Intions between Byang

Steven Runciman's more lateral parallel lateral latera was the Arab conquer urcas in the seventh com salved these theological ages

in more drastic and tagged, manner", as Runciman pair so, heterndoxy, snd the said timate, Water and Agriculture in it, persisted, and is the fee tropics and twelfth century therefore by I. J. Jackson an open challenge to the rid Longman, £7.50 and £3.75 and person of God. ISBN 9-528-48528-2 and 48529-0

a more drastle and mes

R00[[2] All spaced out

and responses to crowding. His didactic style is well suited to such

Space and Place: The Perspectice of Experience by Vi-Fu Touri

THE TIMES HIGHER EDUCATION SUPPLEMENT 2.12.77

Vi-Fo Tosa is unique comung YiFo four is unique among engraphers for two reasons. First he is a philosopher and Spuce and place represents the calmination of several years' thinking and writing about the nature of cityironmental experience. Second, he is would it have sounded to the and cooks in North America.

In countries of the other from his personal perspective, he who are subdy skeds explores experience from different Steven Runciman's not personal radiations and attitudes found the self and the cuciron-dutions between Brace's pands the self and the cuciron-

natures, he locates and becomes or more volid than the latter. The seare in his sense of self. Simi-experience of mythical places is

larly, the individual locates himself in the external world as he develops deep attachments and feelings for Nevertheless 1 finished reading

his own places: his ornanents, his the hoad, with a teeling of countries.

Three theorems and feelings for Nevertheless I finished reading the hoad, with a teeling of countries. disappointment, I waited in val for an extensive statement of hi Three themes are developed in the book, each infinately connected with the others. The first considers the fundation of environmental experience in our biological beritage. Than provides an excellent summary of research in the development of spatial cognition in the child, the impurtance of body good personal relationships in space, and responses to crowding. His ment Human disposition, causaling the control of the control didactic style is well suited to such concise summaries. The second Tunn argues, enable us to explore theme relotes space in the abstract hasic human experiences intainted to place in the particular. In seeing by collural biases. But any level haw space becames absorbed and of experience, upan from immedi-

Wet weather and the economy

without an adequate frame. Containly, the case for the book could have been constructed much more forcibly in the opening chapter and it ends abruptly with no attempt to summarize either the present position with respect to water resources in the tropics, or recommendations concerning future needs and possibilities for the decelopment of woter supplies.

Schtations of foct or relationships. A case in point is the discussion of roundarily included in containing the discussion of four or relationships. A case in point is the discussion of roundarily included in containing the property of the description of the socious rests. The caption to figure 3.18 does not make it clear that these graphs are, indiced, residual mass curves; this unission strengthers the misinger property.

woter supplies.
Viewing the picture itself, there is much of interest in it, especially in its quite detailed accounts of water relations and requirements of water relations and requirements of a wide range of tropical crops. At the same time, however, there is relatively little by way of physical modelling and/or explanation of the processes linking rainfall to the growing plant. Thus, for example, there is no indequate reference either to the influences of upper trapospheric features (for example, jetstreams) on rainfall distributions through both space and time, of to pedogenesis, which has been so critical in the differentiation of areas of varying agricultural potential. Elsewhere, mudern approaches to agroclimatological modelling and forucasting could have been invokad with value, especially since the variability of rainfall plays a kay part in the prediction of crop yields.

Ifowover, the major complaint on a passe make about this book con-

yields.

Ifowover, the major complaint ona must make about this book concerns its recurrent voguenesses and obscurities of meoning, which sometimes lead to significant misrepre-

figure 3.18 does not make it clear that these graphs are, indeed, residuol mass curves; this unissions strengthens the misinterpretations of these curves in the text. It should be understood that, in residual mass curves, changes of ramfull trends (from increasing to docreasing wetness, and vice versa) do not coincide with the peaks and troughs in the graphs but rather with some intermediate inflexions. Thus, for example, the implicit suggestion that the highest annual rainfall at Prectown was in 1906 is quite inaccurata: 10-year running mean analyses (which, for oil their shortcomings are much solves.) shortcomings are muoli eosler to interpret correctly than residual mass curves) indicate that the wettest decade on record was 1877-86, all of 20 years earlier.

while presenting much useful quantitative information on tropical ogriculture, this book is vather thin on discussions of process for a volume published in the middistribution of the scientific community woo drawn more than a decode ago.

E. C. Barrett

Villages in the landscape

could appear both more awaeping ond more important than it was.

After 1350, tha job of orgonizing that book becomes much more difficult. Spanish occiety was prubably more diverse. Spanish historiography is certainly is certainly in the contribution of the case in MacKay's chooch field—lotter medieval Castile. Again ho does morvels in describing and illustrating the court and bas a hardour contribution of the cast of the Castile of the mounting avidence for the manners of the Castile songlines exangeratedly bright contribute. The sample of the sections on the Crawat of Aragon disconcerting, for it has so little now in common with Castile overlapping in the ruling porsonalities. MacKay may here be sexpected and the sections of the Castile overlapping in the ruling porsonalities avallable in English on sixteenth conturty Spain.

This is not a refarcace trathood.

brail Scillenical in Britain Brail Scillenical in Brail Scillenical in Britain Brail Scillenical in Britain Brail Scillenical in Brail Scillenical Brail Br

Geography and Inequality

B. E. Coates, R. J. Johnston and P. L. Knox

Some areas provide their inhabitants with a better 'quality of life than others. This book is about the differences between the areas. I mains with a discussion of the concepts of equality, well-being, and need, and the problems involved in measuring the 'quality of life'.

I writing inequalities between areas are described at the international, intra-national, and intra-national, and some existing policies for the removal of inequalities in social well-being are reviewed. (6.50)

An Introduction to Social Geography

Emrys Jones and John Eyles

This book reflects the growing involvement of geographers in spatial aspects of society, and their efforts to relate their subject brindy to processes within society itself. 'As the first text addressed to a widely taught and recently invigorated branch of human geography, and as a reasonably priced and largely successful teaching volume, this book is timely and is bound to be influential." British Book News, 26,50

Man in Urban Environments

Edited by G. A. Harrison

and John B. Gibson

Highly useful, fact-crammed symposium by individual experts on the environmental consequences of living in cities, covering physiology, disease, psychology and mental health as a compendium, this is swithout equal. New Society. This book is based on contributions to a study group which the Royal Society set up to look at human urban biology and to find out what further research is needed. All concerned are to be congratulated on a book of absorbing interest.'

The Lauert. £7.50

Environmental Choice, Human Behavior and Residential Satisfaction

William Michelson

This book assesses the teasons for people's choice of housing type and location, and the effect of their housing environment on their social behaviour and well-being. Using data from a live-year study of families in the greater Toronto area; the author tests theories of internal urban migration. His conclusions have immediate policy implications for all concerned with housing policy in modern vities.

Oxford University Press

Resource and **Environmental Sciences** Series

General Editors: Sir Alan Cottrell PRS and Professor T. R. E. Southwood FRS

A new series of texts cateting for the needs of the growing number of students teking environmental science courses at university and providing excellent reference for A-level students.

The series will provide o range of basic texts on environmental biology, chemistry, ecology, economics and physics, recognising that students will enter their degree studies with widely varying scientific backgrounds,

The mein group of books in the series will then build on this foundation,

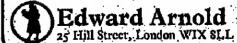
The first two titles in the series are:

Energy Resources

J. T. McMulian, R. Morgan and R. B. Murray Publication November Paper £3.50

Environmental Economics

An Introduction for Students of the Resource and **Environmental Sciences** Sir Alan Cottrell FRS Publication January Paper Lt.95



Human Geography

Second edition

A V Perpillou

Professor Perpillou wrote this highly successful lextbook especially for the Geographies for Advenced Study series. For this second edition he hae revised tha text throughout to take account of developments in geography since tha book was first published in 1966. Statistics have been updated end a mass of new materiel has been included. Thare is an antiraly new final chapter. The Eerth and Human Environments, which explores the problems erising from the unaqual forlunes of the developed countries. Thie book still ramains one of tha claarest end most accessible introductions to the subject et present available to undergraduates and

Cased £8.95 nel

Papér £5.50 nel

Climate, Water and Agriculture in the Tropics

Climate, Water and Agriculture in the Tropics examines the characteristics of tropical rainfall and evaporetion, and their implications for egriculture. land-use, soil erosion and irrigation. The book provides e useful central text for a wide range of studies of tropical canditions.

It is written for those professionally concerned with watar rasourca development, agriculture end regional planning in the tropical world, as well as for sludents of geography and climatology.

Casad £6.95 net

Geographical Variation in Coastal Development

First paperback edition

Professor Davies's study of coasial development is tha fourth tille in the Gaómorphology Texts saries to sppear in paperbeck under the Longman Imprint. Tha book examines ways in which the morphological development of coasis varies from one pert of the world to another, and trias to isolate the factore involved. These factors include global and smallersoale geological structures, illhology, eubeerisi climatas, waves end tide regimas, and the affects of a wida range of plant end animel organiems. Throughout, an eltempt is mede to look at things from a world viewpoint and to suggest the existence of broad palterns on a global scale.

Paper £5.00 net

The Ocean-Atmosphere System

A H Perry and J M Walker

This book studies the interactions between the almosphere end the oceans, and the interdependance of etmospharic and oceanic Few books have treated meteorology; climatology and physical oceanography in an integraled manner; this is the first to do so at a lavet setlefying tha needs of aacond and third-year undergraduate atudents and poatgraduates of geogrephy end related fields. The authors have taken e broad view of the subject, embrecing phenomena end processee ranging from the microscopic to the globat. The book aleo contains a detailed survey of on-going international research

Cased £7.95 net

Peper £5.50 net



ra usually able to colvo uoconclously. This is possible, say Donns
and Stea, becaue we are constantly
raferring to and sugmenting our
"cognitive maps". Cognitive maps
ore selective orderings of information on the characteristics ond
locations of places. "Map" is used
in its widest sense as a representation to the characteristics ond
locations of places. "Map" is used
in its widest sense as a representation to cognitive mapping in process in order to create environments more fitting for the peuple who use them.

In style and the cognitive mapping is
ments more fitting for the peuple who use them.

In style and the cognitive mapping is
ments more fitting for the peuple who use them.

In style and the cognitive mapping is
ments more fitting for the peuple who use them.

In style and the cognitive mapping is
ments more fitting for the peuple who use them.

In style and the cycle of exmapping is more to create environments more fitting for the peuple who use them.

In style and the cycle of exmapping is more to create environments more fitting for the peuple who use them.

In style and the cycle of exmapping is more to create environments more fitting for the peuple who use them.

In style and the cycle of exmapping is more to create environments more fitting for the peuple who use them.

In style and the cycle of exmapping is more fitting for the peuple who use them.

In style and the cycle of exmapping is more fitting for the peuple who use them.

In style and the cycle of exmapping is more fitting for the peuple who use them.

In style and the cycle of exmapping is more fitting for the peuple who use them.

In style and the cycle of exmapping is more fitting for the peuple who use them.

In style and the cycle of exmapping is more fitting for the peuple who use them.

In style and the cycle of exmapping is more fitting for the peuple who use them.

In style and the cycle of exmapping is more fitting for the peuple who use them.

Physical geography

The problems which occur whom resources are exploited by one or more estates or when resource exploited in the cost of the North Pacific. Published by Edward Araold, the application of the North Pacific. Published by Riances Piriter, it costs £8.00...

and Stea, because we are constantly referring to and sugmenting our "cognitive maps". Cognitive maps ore selective orderings of information on the characteristics ond locations of places. "Map" is used in the release of the research.

Across boundaries

problams which

In Allinds: Reflections on Countilive Mapping Dy Roger M. Downs and David Step Dy Roger M. Downs and David Step Dy Roger M. Downs and David Step Dy David Centee Architectural Prees, £5.35 and £1.35 and £1.3

several near-misses. Both finish with a plen that planners end architects should take account of mental images and the cognitive mapping process in order to create environments more fitting for the peuple who use them.

In styla and the types of example chosan there are marked differences. Canter gives o review of sunby. No single topic has received greater attention from hographets than the modern city. In City-Systems in Maranced Economies Professor Pred provides a unique, megrated view of the past and present development of the modern city-system. Since the book has been written with the leads of the first section. ceds of undergraduate students in third the first section introduces the basic concepts, in particular the fuodamental Properties of systems of cities.

86.95 cased £3.50 paper

Maps and graphs

Almost all the maps and graphs of the book has been to aims of the book has been to be aims of the book had been to be aims of the been to be aims of

Hundarion rapies write to the Inspection Copy Unit, Hundarion Publishing Group Ltd., Church Road, Tiptree, Essex.

dutchinson University Library

Patterns in space

Formulated Analysis in Thomas Special Processing Space (1994) and the special process of the carrier of processing the special process of the special of the carrier of the special process been chrelessly compiled, referenced and printed (there are six blank pages in my copy).

The early chapter on tithological analysis, for example, contains many mileleading statements. Figure 2.1 is confusing in suggesting that mechanical weathering produces only limestone particles from a mixed sandstone-limestone source, whereas it produces both components; quartz is only mainly dorived from vein quartz when it is of pobble size—moet quartz of sand siza comes from igneous and metamorphic rocks; quartzita is not only formed by metamorphic changes of silica rioh sandstones but is also used to describe a sedimentary rock; flint is merely a variety of chert and is not normally considered an acid rock; the common term for the weathering prinduct of gramile is grus rather than growan or gros. The recommanded methods in the chapter on particle gram size era over almplified and are likely to lead the student into bad habits. It is questionable whether the fairly refined stotistical treatment recommended is warrented on such relatively crude data, particularly for the finer sedments. The statistical eections are very unsatisfactory and confusing and are likely to lead

the finer sediments. The statistical ections are very unsatisfactory and confusing, and are likely to lead to endless frustration.

The section on the Chi-square test is difficult to follow as often the wrong tables are referred to in the toxt. The same sequence is not nikered to in encaeding sections and incorrect values of chi-squared are given in the tables but quoted correctly in the text. Furthermore, the rounding up of expected values is most unusual end biases the result. The explanation of the Spearman's rank correlation is rather woolly and there is a mispriot in the worked calculation in the text. I hope that the publishers will print a list of corrections and provide copies of the missing pages, and that the editore will be more careful in the succeeding volumes of what sould be a useful series.

Graham Evans

Graham Evans R. J. Howarth

Reviewers

geography et the University of Brisiol; Is Bellamy is senior lecturer in the department of palities at the University of York and onthor of Australia in the Nuclear Age. in the Nuclear Aga;
In the Nuclear Aga;
Archie Brown is n fellow of St.
Antony's College, Oxford and n lecturer in Soviet institutions at

turer in Soviet institutions in Oxford I Jacquelin Burgesa is a lecturer in Jacquelin Burgesa is a lecturer in Jacquelin Burgesa is a lecturer in environmeotal perception at University College, London; J. B. Godderd holds the chair of regional development studies at the University of Newenstie and le the author of Office Location in Urban and Regional Devalopment; Professor Frank Healey is in the department of linguistic and regional studies of the University of Sarrey;

Winch le professor of the of economics at the Univer-

Treatment of **Industrial Effluents**

Eillied by A. G. Cullely, C. F. Forster and D. A. Stafford

Recent years have seen a generol upsurge of interest in the quality of treatment of industrial waste. A new technology is emerging, and this highly topicet book examines existing methods and problems and makes practical suggestions for the future. It also covers in detail the basic scientific and legal aspects of the subject and, hy dealing with individuel cases, points out the iliversity of problems encountered from one industry to another. It also makes clear that much can still be done to improve the effects of industry on the environment. £7.95 0 340 19799 4

Environment and the Industrial Society

J. Coller, P. Down, D. Penrce, J. Persons and

Edited by N. Holmes

This hook deals with the environmental crisis from tho standpoint of society as a whale. Its nim is to view the development of pullution and resource deptetion from an historical aspect, pointing nut that the present 'crises moy well form a 'normal' phuse in the development of ony initiatrial society. The problems of porticular fletds are dooft with in terms of (a) n general summary ond review of the existing situations, (b) The actuel prospects open to society for chonging the direction of its growth. 0 340 17193 6 0 340 17192 8

*Inspection copies ere available on request

Hodder & Stoughton

Dunton Green, Sevenoeks, Kent TN13 2YD.

John Wiley & Sons Ltd.



GEOGRAPHY ANO MAN'S ENVIRONMENT by A. Sirehiar and A. H. Girahiar, University of California Uses the principlas of physical gaography and ecology to exemina environmental problems and issues. Emphasizas geography's key rola in understending and solving environmental problems. Discussas air end weier polution, accaysiem dynamics, uap of natural recources, and the human exploitation of anergy resources.

471 91570 6 449 pages April 1977 211.22 \$19.00

671 92223 7 546 pages W.I.S. 28.30/\$16.82

PHYSICAL GEOLOGY Second Edition by the lete R. F. Flint, and S. J. Skinnar, Yale University A general introduction to physical geology, atreasing earth/people interactions, which discusses current knowledge about the Earth, including earth materials, surlicial processes, internel processes, and the plenets.

the plenets.

4471 25442 3 589 peges Merch 1877 611.09/\$16.76

5471 6259 1 659 peges W.I.C. 28.75/\$11.55

THE COASTLINE: A Coniribution to our Understanding of the Ecology and Physiography in Relation to Land-Use and Management and the Pressures to which it is nubject edited by R. S. K. Sernes, Si Calharine's College and Department of Zoology. Combridge

edited by R. S. K. dernea, SI Calharine's College and Department of Zoology, Combridge
The book decorbes the ecology and physiography of coasial habitala, particularly in relation to the natural and human pressures and lend uses to which they are subject and to the forms of management appropriate to maintain them in their natural state.

Management appropriate to the particular of the company of the particular of the parti

by A. C. G. Beel, Boston University, and H. J. de Bill, University of

Miami
This ihemailo regional geography of Africa places Afriba's changing cultural lendecapea in a geographical context. It tocuses on specific probleme end leaves that charecterize individuel countries or groupe of countries, and includes a apparate action on North Africa.

1017 2003 8 640 pages April 1977 212.03/820.es
Text Catalogues in the following subjects are svallable from Wiley at the individual countries.

the address below:

Economics end Menegement; Mathemotics, Stotlatics, Computing; Physics; Chamistry; Life Sciences; Geography and Geology; Peychology and Sociology. John Wiley & Sons Lid, Beflins Lane, Chichesier, Sussex PO19 1UD, England.

Classified Advertisements

To advertise in The THES phono Lorreine Williams 01-837 1234, Extil. 575 THE TIMES · Higher Education

SUPPLEMENT New Printing House Square, P.O. Box 7 Groy's Inn Road, London WC1X 8EZ



Universities continued

AUSTRALIA

Applications era trivillad for the following pacts, for which applications close on the datas shows. SALARIES juniose ciberwise slevial era sa juliows a Senior Secentri Frilow, 1820,666-8,844,464, research Fallow, SA14,632-841,139, Senior Labutuer, 3419,370-5,422,955, Lecturer, 3414,632-3412,262, Tuter, 3410,362-3412,262, Tuter, 3410,362-3412,262, Tuter, 3410,362-3412,262, Further deteir, conditions at

\$410,282-\$411,223. Further deteirs, conditions at appointment for such post, mathod of application and application form where application, may be obtained from the Association of Commonwealth universities (Appls.), 38 Gordon Square, Leedon WCIH SPF.

university of Melbourne

Classified Advertisements Index

Appointments vacant Universities Fellowships & Studentships Polytechnics Technical Colleges Colleges and Institutes of Technology Colleges of Education Colleges of Further Education

Colleges and Institutes of Higher Education Colleges and Departments of Art Research Posts Administration Overseas Adult Education Librarians General Vacancies

Official Appointments Appointments wanted Other classifications Awards

Announcements **Exhibitions** Personal

Courses Holidays and Accommodation

Universities

OVERSEAS TEACHING POSTS

ENGLISH LANGUAGE SUPERVISOR (Thailand)

Ministry of Education Teacher-Training Department, based at Chiengmai.

Degree in English or Modern Languages. Postgraduate TEFL qualifications and minimum 5 years' experience. Salary: £5.210-£7.054 pa.

Benefits: Overseas and children's allowances; free accommodation; medical scheme; superannuation, 2-year contract.

LECTURER IN ENGLISH (South Africa)

University of Fort Hare. Lecturer to run Practical English Course specifically catering for the Khosaspeaking group.

Degree in English and experience of tertiary-level English teaching essential. 1-year university qualification in TEFL desirable. Single candidates only. Salary : £4,490-£6,514 pa approx.

Benefits : free furnished accommodation ; employer's portion of UK superannuation. 3-year contract. 77 HU 62

THE BRITISH COUNCIL

Relurn leres ere peid. Local contracte are querenteed by the Brilish Council. Please write briefly stelling quelilications and length of appropriate experience, quoling relevent reference number and title of post, for further detelle end epplication form to the Britleh Council (Appointments), 65 Device Street, London W1Y 2AA.

CHRIST CHURCH, OXFORD Research Lectureships and Senior Scholarships

The Governing Body proposes to elect up to three Research Lectuters and two Sentor Schplers, the posts lenable from 1 October, 1978.

A Research Lecturer must be well qualified to engage in original research and underlieke to perform some definite literaty or actentific work. Appointments will be to two years, renewable to five. The allipend will be £2,600 p.e. plus university less. A housing allowance of £550 mey be paid at the discretion of Governing Body to a Lecturer living out of college. Preference will be given to those who have not exceeded six years from their lirst degree on leking up the appointment. Research Lectureships are open to men and (subject to Privy Council approve) of a revised eletute) women. A Senior Baholar must be a man qualified for a list degree of a university in the United Kingdom or of Trinity College, Dublin, when he takes up his appointment, and be under twenty-four years of age on β Morch, 1978. Appointments will be for two years, renewable to four. The tolet stipend will be not less than £1,475 p.e. plus university fees, with roome it the acholar is thying in college or an ellowance at the discretion of the Governing Body. It no lives out of college.

Full at portioulars and an application form may be obtained from the Deen's Secretary. Applications must reach the Dean by 13 Jenuary, 1978. Each cendidate will be esked to name three referees, and to request them to write a letter to reach the Deen not leter than 20 Jenuary, 1978.

FLINDERS UNIVERSITY OF SOUTH AUSTRALIA

SCHOOL OF MEDICINE

REPAIRIATION GENERAL HOSPITAL, HAW PARK The Reputriation General Hospital. Let Park is formally allihated as a feaching Hospital of the School of Metheine at the Elimbers University of South Australia. It is a 300 best general hospital with malor service in Medleme and Surgery, as well as developed services in reliabilitation and germinost, and psychiatry. The School of Medleme of the Hinders University of South Australia hospital part of the Hinders Meddeal Centre, a feaching hospital with a dual role as a regional community hospital located on the University campus. This Medical Centre, which has 120 bedievailable at present, will have 900 beds available early in 1978, and will increase to 700 beds by 1980. It is only two nodes distant from the Reputrlation General Hospital.

SENIOR LECTURER IN MEDICINE

IGENERAL MEDICINE OR RELEVALATORORY

SENIOR LECTURER

Kindonello. The appointees will be expected to undertake responsibilities in putient cars, teaching and a carch, and to spend more of their time of the Reputifation Teneral Hospital, Daw Park. However the appointees will be ensouraged to spend since time card week at the Flinders Medical Centre. Applicants should have a Fellow-dipolities Riving Associates of Surperiors in Indian continuous and associated to APIO would be an obviously. The postfilms and available from July 1, 1978. Salary scale: \$419,676 to \$422,955, in addition to submit the appointer will receive a clutical londing of \$44,167 a real and will have fluinted right to private practice. Superimposition is on the USE-losses.

UNIVERSITY OF SCIENCE AND TECHNOLIGY KUMASI-GHANA

Applications are invited from suitably qualified appli-

LIBRARIAN

Candidotes should be qualified Librarians and should have hed considerable post-qualifying experience in a University Library or comperable institution. DUTIES: The seccessful rendidate will be in charge of the University Library in all its asperts.

SALARY: C12,384 p.e.
Other henelits include subsidised accommodation, free medical facilities and car maintenance allowance. A textree British Government subsidy of 19,228 p.a. 115,952 singlet may be psychic to successful applicant of British or Irish notionality.

Application forms may be obtained from the Overseas Representative, Universities of Ghona Office, 15 Gurdon Square, London WCH OAG to whom completed forms 15 copies) should be returned but later than

forms (5 copies) should be returned nut later than December 20, 1977.

POST VACANT

UNIVERSITY OF OTTAWA TRANSLATION STUDIES

School of Translators and Interpreters

Assistant, Associate or Full Professor, storting Summer or Autemn 1978. Courses of 'theme' 'translution from French to English' lo F professionally oriented B.A.Hons. programme for Francophonies, together with seminars and for Anglophones and Francophones. Competitive salary in accordence with the University's collective agreement. Requirements are e doctorate or equivalent publications in Translation or 8 closely related subject, ples professional and teaching experience. Ability to teach Terminology or Apidy to Prof. B. Harris, School of Translators and Interpretes, University of Ottawa, Ottawa, Ontario, Canada.

UNIVERSITY OF ADELAIM

YURIA IS BUDGED IS C

support.
Enquirlos about the points but directed to 9: 5 f yro or J. H. Costes 18.07
2. GREEARCH ASSOCIATION OF SMITTED COPPARTMENT OF SMITTED CHEMISTRY [381 7.3] for work on the control of the control

JULY TY |

J. REBEARCH ASSOCIATE THE OEDARTHERY OF OHE CHEMISTRY | Invitable in the Chemistry | Invitable | Invitable in Committee | Invitable | Invitable

Hucketth. 130.12.72.]
SALACY SCALE: Sill.
271.[3]-309[1]-376[1]-134.]
In the fixed in rebiles to decisions and provious experies
(to provious te medi for all annualities and provious to specifically the grantice body. 8.05
Intilian may be made for trained or costs to Addition to the annualities.

It is appointment.

up the appointment of the pro-and olving pathetias of as a moritol stellar, delais si admir a delais si admir a delais si admir a conductor and especial on a conductor and control and c

NEWNHAR COLLEGE

the College to relie for Services of Services where the Services of the servic

inni, on a dair man.
September 1, 1978.

The salery sorie for the College Sections, not college Sections, not college of the College oper sensor, pring the College would be available. The post is performed to the college would be a sensor. The botter will able the college would be a sensor. The botter will able the college would be a sensor. The botter will able the college will be able to oppoint near it in a sensor the college will be able to oppoint near it in a sensor the college will be able to oppoint near it in a sensor the college will be able to oppoint near it in a sensor the college will be able to oppoint near it in a sensor the college will be able to oppoint near it in a sensor the college will be able to oppoint near it in a sensor the college will be able to t

LECTURER/LIMITED invites epplication in a lowing postdector in authorized by the Author according to the Committee of the Com TENURE LECTURER DEPARTMENT OF ECONOMIC HISTORY Cadidates should held on pagaduato qualification. The pagaduato qualification. The Department, which has eight guiden teaching members, effers at subjects enumally and o more versatic lecturer may be preferred to the rigid geoisist. Applicants whose higher degree is to oracities but related fileth will olso be applicated. 1816V [661 7.3]
10 work on a project to,
Companyive Study of
Molal Complexe ConjuSingle Labite Sit with
Enzyme Carbonic shippin
autotaustal physical backpack-ground will be admit
The ampolatinged to rerandworks for up to its
inclinal suppolations by
material an appolations by
material suppolations by
material suppolations. is January, 1978.

University of 'Adeleide LECTURER IN GEOGRAPHY

Red. 7-3)
From Soptember, 1978, or or good as possible thereafter.
Most of the major Helds of Hemen and Physical Geography as taught in the Department and applications from persone specialising is any area of taken with the considered. A stainment of current and long sent teaching and research lacrets should be included in the application.

University of New South Wales, Sydney LECTURER IN PEDOLOGY

Applications invited from persons with upericines of self stindies and mapping in land classification and management, including had ose. Preference will be from the candidates with also have special skills in remote-scale annifications.

LECTURER IN MATHEMATICAL GEOGRAPHY Applications invited from persons with skills in model coliding for urban and regional analysis, and experience to competer applications. Applicants should have o hackground pracipally in the ticids of urban geography and regional planning, and preterably with recited experience as eo applied geographer.

32th December, 1977,

University of Teamania DIRECTORSHIP SCHOOL OF

SURVEYING SURVEYING
The University Invites applications for the poet to be eatablied from 1978 whe o the course currently provided by the faminate College of Advanced Education are transferred to the University. The School of Surveying, which with have he own Board of Sudies reporting to the Faculty of Engineering, will initially offer a four-year backelor's Expectory of the Faculty of Engineering, will initially offer a four-year backelor's Expectory of the Faculty of Engineering, will entry the salary of a reader, currently \$2.55/15 p.a.; the appointment will according to qualifications, be either to a readerhip, or ofter-natively to a scaler factoreship beguine with a higher duties allowance which would bring the salary to that of a reader,

. WALES THE UNIVERSITY COLLEGE DEPARTMENT OF POLITICAL

Applications required for the part of ECTUREF, tenable that Gooder lat, 11/18, Application of the Court of th

THE UNIVERSITY

CHAIR OF ANTEROPOLOGY AT THE LONDON SCHOOL OF ECONOMICS AND POLITICAL BLIENCE

QUEENSLAND CONSERVATORIUM OF MUSIC

LECTURER IN CHORAL MUSIC

LECTURERS/SENIOR ACCOUNTING AND Applications ore invited from suitably qualified persons with interests in teaching to the area of summercial lew or fiasnessed accounting. Successful applicants will be encouraged to undertake research.

Just December, 1977. HEALTH ECONOMICS

(HEALTH ADMINISTRATION) DEPARTMENT OF ADMINISTRATIVE STUDIES

Regunabilities include post-graduote tenching and research in health economics. Appilicanis should have a higher degree and a competent research record. Appolations to this position have be for a fixed term of three very three years. 31st Jaauary, 1978.

TUTOR IN PURE MATHEMATICS DEPARTMENT OF MATHEMATICS

Applicates should have previous experience of disigning and implementing surreying control, plus broad tooling expedinges from the control surreying with a particular interest in most the licids of photogramacity, goodesy, howe planning and cadestral surveying.

Jist December, 1977.

Monach University,

DEPARTMENT OF

LECTURERS

FINANCE

LECTURER IN

The appnintee will conduct intorials, which for first-year classes may be in any area of mathematics beliading applied mathematics and statistics, and in scennd year and third year will be in pure mathematics and sorvice methematics. He or she will also be expected to take part in graduate activities of the department, and there may be opportunities to give lectures. 31st December, 1977.

Flindets University of South Austrelie echool of Humanities LECTURER IN VISUAL ARTS

VISUAL ARTS

Applications are taylied for the position of Lectuter in Vistal Aris. The successful candidate is likely to hold qualifications in antiropology, inclue-slogy or pre-history as well as in the visual line outs, and will initiate studies in the non-Puropean art at the Pacific region, complession either Melantesian or Americalia, Aboriginal art. It or six will also be required to easily will general neadorate teaching in the Dischpline, and abould be capable of developing a second area of interest in art history or theory or education.

LECTURER IN CLINICAL PHARMACOLOGY PHARMACOLOGY
Applications are invited from Science or Medical graduates for the position of Lecturer in Clinical Pharmacology. The appointer will be appeated to teach basic and clinical pharmacology, to conduct research to iniviter field of interest and to participate in the rapeutic, drug-monitoring and phormacetilleal services wishle the Flinders Medical Centre. The appointers could have a major interest to aspects of other hasic or clinical pharmacology, but should have coosiderable experience to teaching pharmacology to medical students. In eddition to salary, the appointer will have the right to limited airmings from other sources and, if a medical graduate, will not be eligible to receive 0.

and, it a medical graduate, will obe he deligible to receive o climical toading of up to \$4,167 a year.

20th January, 1978.

The School of Medicine forms an lotegral part of the Flinders Medical Centre, a tazehing hospital with a dual role as a regional community hospital.

The Centre has 320 beds available at present, increasing in 700 beds by 1980.

20th Jonuary, 1978.

LONDON

The Senate invites applications for the above Chee.
Candidates should obtain further particulars from the Assdemic Register (THES), University Mater Street, London,
Wills Titll before submitting
unpiteding (10 copies), Clesting, date 19 laneary, 1978.

BRISBANE, QUEENSLAND, AUSTRALIA

Applications are invited for the obove presiden on the academic stell of the Conservatorium. The Conservatorium is an autonomous college of advances education of the conservatorium is an autonomous college of advances oducation of the conservatorium is an appoint of the conservatorium of the conservatorium

THE UNIVERSITY OF ZAMBIA

Applications are Invited for the following two posts: RESEARCH PROFESSOR/SENIOR RESEARCH FELLOW/ RESEARCH FELLOW IN THE INSTITUTE OF HUMAN RELATIONS. Candidates mest possess post-graduate qualifications end shoeld be interested in eny of the fellowing areas of research: (1) the task of beliding a "Mancentred Society" in Zambia, [2] a critical appraisal of the Zambian Philosophy of Humanism, (3) cultural relations as an important dimension in International understanding and co-operatioo, [4] evercoming obstacles and hindrances to racial harmony in Airica and [5] challenge of the divinied world. SALARY SCALE: RESEARCH FROFESSOR K8,232-K8,516 p.a. SENIOR RESEARCH FELLOW K6,324-K7,200 p.e. RESEARCH FELLOW K4,956-K5,496-p.a. (Ei sterling=K1.42). The British Government may sepplement salaries in the range £2,220-£4,062 p.e. (eterling) for married appointees and £330-£1,644 p.e. (sterling) for single appointees and commally free of oil tax end reviewed annually) and provide children's education ellowances and holiday visit passages. Family passages; varioes allowances; superannuation nod medical aid schemes; regular overseas leave. Detailed applications (two copies) including a curriculem vitae and naming three referees should be sent nitrail to the Registrar. The University of Zambis, P.O. EOX 2379, LUSAKA, by 29 Decamber, 1977. Applicants resident in UK shoeld olso send one copy to Inter-University Council, 90/91 Tottenham Coert Road, Londen WIP ODT, Further particulars may be obtaloed from either address.

UNIVERSITY OF MALAWI CHANCELLOR COLLEGE

LECTURER IN PUBLIC ADMINISTRATION

Applicants should have a good honours degree in Political Science our Public Administration. A higher degree, teaching and research or civil service aspectance in Atrica or o developing country will be an advantage. The appointee will be required to leach degree/diploman attacked in at least two of the following areas organisations theories and behaviour, managemont, personnell administration, public enterprise, introduction of the comparative politics and comparative politics and comparative politics and compared to the comparative politics and compared to the compared compared to the compared public decision application and development administration. Applications whole indicate to their applications their fluide of compared compared compared to the compared compared compared to the compared to the compared compared compared to the com tido scheme. Datalied opplication itwo copies) including curriculum, vitas and agains three referess to be sent airmail by 30 Decouper, 1977, to Registrar, University of Malawi, P.O. Box 278, Zomba, Malawi, Applicants resident in UK should also send one copy to inter-University Council; 90/91 Tottenham Cohrt Road, London WIP DDT. Further details can be obtained from aither address.

FACULTY POSITIONS IN CIVIL ENGINEERING

The University of Baluchistan, Zahedan, Iran will consider applicants with Ph.D. in civil engineering preferobly (structural, sanitary, soil and foundation).
Selery and rank upon qualifications. Teachlog experience at undergraduate level is preferred. Free housing end return ticket provided. Send resume to the office of the vice-chancellor. P.O. Box 41-3125, Tehren 14, [ran

UNIVERSITY OF KLAGENFURT

i the University of Klagenfurt (founded 1970) the position of Fall Professor of Slavic Philology (Imguistics) ha

become available: "Habilitation" or similar qualification in the general area of Slavic Philology.
Candidate, should be conversant with the entire field of Slavic Philology (Impolstics) and be capable of covering It adequately in teaching and research. Special emphasis placed on Russian and Sooth Slavic Linguages (Slavenian and Serbicrottan). In consomince with the general policy of the University, candidates should have an interest in and pay special attention in teaching and research to ilidatale and methodological problems. They must be able to fecture in German.

Annitotions are to be forwarded before January 14, 1978, Applications are to be forwarded before January 14, 1978

Direktion der Universität ich Riidungswissenschaften Riagenhert, Universitäts-strasse 65-67, 9010 Klagenburt, Anstria.

'ST. HUGH'S COLLEGE, OXFORD Application is invited for the following postgraduate

ELIZABETH WORDSWORTH

JUNIOR RESEARCH FELLOWSHIP

St. Hugh's College proposes to elect to an Elizabeth Wordswords Jenior Research Fellowship, tenable for three years from Michoelmas Term 1978. The annual value will be £1,650 with residence. Parther paralculars from The Principal, St. Hugh's College, Oxford, to whom applications should be sent by Monday, 9th January, 1978.

UNIVERSITY

OF YORK

CHAIR OF ELECTRONICS

The University le establishing of Department of Electronics which will admit he first sundents in October, 1979. Applications are invited for the past of Professor at Electronics and Hencot Department tenable from October 1, 1978. Salary within the Prolessarial range.

The person appointed will be responsible for setting up though the person appointed will be responsible for setting up though the person with the astisting department in close co-operation with the astisting department of Computer Science on Physics. The University is pur licularly interested in establishing a department in which systems ongineering is attrough represented.

18 (plu contest of publication 18 (1970)

represented.

Eight copies of applications from oversets candidated, naming three referees, should be suit by Decamber 31, 197, to the Registrar, University of York, Hestington, York Yot 501, from whom lurtbar pacticulars may be obtained. Please quote reference number 6/:017.

The Queen's

University of Belfast

Visiting

Studentships

1978-79

Visiting Studentships within the renge of £1,500-£1,550 p.e. Oles face and Iravel alloweness are syctistic for 1978 to candidate who have obtained a good honours degree of entire university and have allowed activate for research or other original work.

These research ewerds are leneble in any department for two years with possible extension for o tillid year and the holders may undertake some damonalisting or taterial work. It is available.

Application forms his because of the Academia Council, The Ounce's University, Beltast 817 (INN. They should be retuined to him by 1 Febreary.

UNIVERSITY OF YORK

CHAIR OF ARCHAEOLOGY

The University is establishing a Department of Archaeology which will admit its first situations are invited from people with interests to post-Rouman orchneology for the goes of Professor of Archaeology and Head of Department to begin on October 1, 1978. Salary-within the Professoriel range.

Nias copies of applications (one from oversess candidates), canding farce reloves, should be sent by December 31, 1977, in the Registrar, Onbershy of York, Hestington, York YOt 51010, from whom burdur particulars may be obtained. Please quote reference No 6/1012.

UNIVERSITY OF

TECHNOLOGY ASSISTANT **ACCOUNTANT**

quolified accountants for this sculpe post in the University Pinence Office.

Salary within scale £6.443-£7.951 (under review). The com-mensing salary is likely to be in the lower freit of the paste. Postcard requests for application locans and further details to Poul Johann, Establishmeni Officer, Ref. 77/43AD.

University of Cambridge Faculty of History The Appointments Committee of the Faculty of History Inlend to Sappoint from October 1, 1978 46

> University Assistant Lecturer

Modiavel European History, 400-0 [1000: Mediavel European History, 400-0 [1000: Mediavel European History, 1280-1200. A willingness of teach mediavel political of thought may be an advantage. O'The happdalpean will be for three gyeers, with the possibility of regenerations of the possibility of regenerations. deppersiment for Jwo years.

Geale of stiponds: 23,647 a year of origing by lour endual increments of the person o UNIVERSITY OF ENGINEERING

MATHEMATICS

- LOUGHBOROUGH

Applications are invited from sullably question porsons for the poel of LECTURER to the Department of Engineering Mathematics. Application should be experienced mathematic. inos or mattematically lectined onem-cars or scientists an chave research interests in some branch of angiscering mathematics.

Salary widdle scale 23,333 to 16,655 innier review). It is hoped in appoint within the lower half of the scale. Postered requests for application forms to Paul Johnson, Establishment Officer, reference 71/42PM.

Loughborough Leicesfersitre

HULL

THE UNIVERSITY

CHAIR OF CIVERICE

Applications are invited from subabily qualified vanidading subabily qualified vanidading subabily qualified vanidading subabily qualified vanidading subabily subabi

Initial actory will be not less than 2011us per annine funder reviews plus 1880s 1881 henefits.

Applications (twolve replicated parallel three referees should be seen by 40 february, 1991). In the Heilblard, The University of the Heilblard, Thy Hou whole particular thay he obtained.

KEELS

CALL FOR PAPERS

Fourth International Conference Improving University Teaching

26-29 July, 1978 Aechen, F. R. Germeny

- As opportunity for an international dialogue on loanes of improving the leaching-learning process in tileher education.

 Conficulum Theory and Development and Their Relationship to Teochiag Everleace
- resuming twelleave
 Teaching and its Helminouship to Student Learning
 Student Abithles and Attitudes at They Affect Learning
 Strategies for Implementing Teaching-Learning Improvement Programs and Their Evaluation
- grams and Their Evaluation eries of workshops designed to enable participants to develop practice specific teaching methods will be conducted parallel the paper sessions. The interpretability of conducted parallel the paper sessions of contributed papers and the form of abstracts, it must be received by I Tebruary, 1978, may be obtained

UNIVERSITY OF

MALAWI

CHANCELLOR

COLLEGE

Applications are invited for the

Applications are invited for the following post tenable in scott us possible: St.NHIR U-CCURIER; Applicants should have a higher degree in Ucconsines. Psections teaching including postgraduate exp. rouge and research supervision will be on advantage. Preference will be on advantage, Preference will be on advantage, Preference will be on advantage. Preference will be including quantisative anchoods. The appointer will be required to leach economics in the postgraduate level. Science Will be required of leach economics in the postgraduate level. Science Will be required to leach economics in properties of the preference will be required of leach economics. In the preference will be useful participated to the appointer with the participated for married appointers and F2184-42342 pa (sterlay) for single improduces the feel of leaching the provide children's edge and F2184-42342 pa (sterlay) for single improduces and holiday visit passages. Panilly passages; various allowances and holiday visit passages. Panilly passages; remained by the preference admission with the preference of the preference of the preference of the passage of the participate of the preference of t

Inmo: Improving University Teaching University of Meryland University College University Bouleverd et Adelphi Road College Park, Marylettd 20742, U.S.A.

University of Woles



APPLIED BIOLOGY DEMONSTRATOR

Praferenca will be given in applicants with PhD dagrees or equivalent poelgraduete axperiance and research interests in the lields of medical or Nutritional Blochamistry. Medical Microbiology of

Toxicology The appointment is for 3 vears incremental selery up to 23.781 (depending on age

BUSINESS ADMINISTRATION AND ACCOUNTANCY

RESEARCH FELLOW TUTORIAL ASSISTANT

Three-yeer appointments. commencing as soon es possible, will involve research and fuloriel feeching in the arase of Organizational Bahaylour or Business Policy and Accounting and Finance respectively Salary: Research Fellow £3,333/£3,547/£3,781

(lo work for PhD)

Tuforief Aselatanf £2,904/£3,119/£3,333 Ciceling data Decembar 16

Requaers (quoting relevence THES) for details and application orms to Personnel Saction (Academio), UWIST Cerdiff CF1 3NU

UNIVERSITY OF SIERRA LEONE -

NJALA UNIVERSITY-COLLEGE

or the following fields: Edd-togy, Plant Taxonomy, Plant Physiology and Microbiology, SALARY SCALE: LECTURER (28),740-Le0,200). The British Gov-ling = Le2,00). The British Gov-arment may supplement salartes (in range 24,770-25,644 p.s. tstor-ling). for pasiried appointess. sil In range 24,770-55,044 p.s. telerling) for married eppointees, st.
25,144-25,254 p.s. telerling) for married eppointees, st.
25,144-25,382 p.s. (sterling) for
single eppointees (supplaneaus
are reviewed annuelly end are
normally free of all (axes) and
provide childien's education
offowences end holiday visit
passages Family passages, bionniel oversess leaves, various
effowances if 168. De continue
three reference should be sent
olumit to the Beccetary, Univariety of Sterms Leone, Putvale
Mail Bay, Freetown, Glorra
Loone, by Decomber 30, 1977.
Applicants resident to UK should
also sand one oppy to therUniversity Council, 90/91 Totaes,
ham Court Read, London WIP
DOT, Further particulars may be
obtained from either address,

UNIVERSITY OF YORK

CHAIR OF ECONOMIC AND SOCIAL HISTORY

Applications are invited to the Chair of Economics and Social History willian the Department of Economica and Rolates Signification to the Process 1976, Salary within the Process ential rango. Eight copins of opplication

oulsis may he obtained. Plens quale retorance no. 6/1010.

CHIVERSITY OF -TECHNOLOGY

Practice of Banking

Applications are fostled for a 1117-TURESTIP in the law end Prac-tice of llanding in the University's Department of Management Studies. This newly cremed post arrest from the development and growth of the undergraduate course in Banking and Umance which has an emphasis on applied studies.

Candidates shanid preletably be graduates with a relevant professional qualitation and present building experience. Salary within scale (3,33) to 15,655 limits review! It is logist to make in appalating in the lower half of the realest control of the patternary and application from to Paul Johnson. I stablishment. Officer. Ref. 77:41818.

BATH

THE UNIVERSITY ormool, or physics Applications are invited for length are later (46 ff. H could be preparable if the new constitution in the preparable in the new constitution and the new constitution and the preparable in the tradition of the new constitution and the preparable in the preparable Application forms and fur-tion details are available from the recent and latter, thirty-shy of Late, that has 7A's sporting reference analogy 77, 422 IREM, Display dain for applications 15th freember 1777

BRABBORD THE INIVIRMITY A MINISTER MY THERETA.

Applications are invited from audatily experience il Hilality of the following and invited from the following experience in the following terms are the following terms and the following terms are the following terms and the following experience in the fo Further particulars one epiliculor inter obtainable from the Buolater Philipper of Dradford, Wast University of 10P Informat Optakirg, IRI7 10P Informat Inquires may be addressed to froteseer B. W. Barry.

LANCASTER THE UNIVERSITY LECTURESHIP IN PSYTHOLORY

Applications for invited for a lectureality in the Department of Powinings. Baveraines, of Paythology will be considered by Various starting thick rensidered up to 1 October, 1974. Sulary acade, 23, 337 to 20, 267502 quader rostogy. Purihor particulars may be

> LANCASTER THE UNIVERSITY OHPARTMENT OF POSTDOCTURAL RESEARCH

an Applies tions are invited for an ERC Postdoctoral Polyav-anin by work in collaboration with Dr. P. Hodga on the Ayalasta of estimity occur-ring guinouss with sail-tumour activity. The sprominum will be for one year in the first instance, rankwahe for a second year. Commencing data as soon as appaint, where we will be supposed to the second year. The second year is not to the second year in the ranks of the second year.

DEPARTMENT OF ENGINEERING SCIENCE Applications are invited for the cost of HESTANICA SISTANY tenable for 2 years in 18 Japany, 1970, or us in 18 Japany, 1970, or us in 18 Japany, in the matter Activities and the matter the country of HISTARCES ASSISTANT I Frantilla for 2 years from 1st January, 1970, or us announced by the collection of the collection of

DURHAM

THE UNIVERSITY

Candolajes should have 8 degree in englisering in physical adults with the physical adults with the first english in industry would be fine odentage.
Inttal salary, depending on age and quelle apopt, who be in the range \$2,944 to \$5,335 on the National livestric Hange CB piles succompation. Applications officer tradest panding flare referees stomation by 100 florendee, 1977. To the Herister and Secretary, Sterne Laboratories, South those, Ingland DRI 542, From solven floring particulars may be philadical.

THE UNIVERSITY DESCARCH LELLOW IN DEPARTMENT HE SOCIAL POLICY AND SOCIAL WORK

Applications having from Applications having the product of the pr

LEEDS THE UNIVERSITY DEPARTMENT OF

Apple affines are invited tot
the past of 11x(1)M(1) in
MURRINDIAMAY, vacant from
tel dicholer, 1-70x While the
site result randitage may be expected to participate in cleanerthe subject of the past of the superist
the subject of the dispute of the
first of the dispute of the
the subject of the dispute of
the test of the dispute
with applications in environmontal aspects of the subject
with dispute of the the
test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of
the test of the test of figury on loculer scale Application colliner reviews a Application forms and this their particulars new the district factor of the district function factor of the fa

LUNDUN BUDGORIL INDOORS (University of London: TEMPORARY LIBITION IN

Applications are invited for a february 1 Lettini Sulli in 1917803 from Lindary 1 in unit-flity, 1970 1 Lymiter of test long domentary physics and trust of purchasing in Fieles Middless an advantage, trust safety industries SURGE (1996). Applications in he sent as sonn as possible to the funder-signed to whom further par-ticulars may be obtained. Bentin Assistant Sections (Fersonnel), Bedford Unlege, these offs that, London NVI 408 Clut, due, a lint, evi.

MANCHESTER

INSURED OF SCHENCE AND Applications are invited from conditative of afficer sex for a special tipozarct. Assistantishing to study fire projectation of the fire o than 25,761 per on Applications will be for your to the first instance.

Applications in a state of the first instance.

MANCHESTER THE UNIVERSETY REGISTRAR'S OFFARIMENT ACULTY ON EDUCATIONAL

THE TIMES HIGHER EDUCATION SUPPLEMENT 2.12.77 LONDON . . THE UNIVERSITY KIND'S COLLEGE

Universities continued

NEW ZEALAND VICTORIA PRIVILIBITY CHAIR OF LAW

OFPARTUENT OF

A full-time retears by the first sale in the fir

Application thoughts a Application of California Should be the call of the cal

Starting splary by ic 1477, for alough, four f155 pr about the control of the pitte provision for 82,1 which the feet

Applications, with the rure value of the rure value of two referes that is son to transfer that is son to transfer the transfer that the t

LONDON

ENTERNAL COLLEGE OF

DOMESTIC MANAGER

The post of content will become the air April 1978, and appliable are fively and applicable are fively and applicable are fiveliad from mains sufficient who have denounts received and applicable are the applicable and applicable are applied to the applicable and communical airchard accommendation in the coulons incellular accommendation in the applicable are applied and communications. It recommends a product a first applied and accommendation in the applicable are applied to the applicable applied and accommendation in the applicable applied and accommendation are applied to the applied and accommendations. It responses the applied applied and accommendations are applied to the applied applied and applied applied and applied applied and applied applied and applied applied applied and applied applied applied applied and applied applie

The post is adminishing frame III. Scale Es, 13 to ET, 15 II. Control Landon Allowance of £130 ps. Ps. Allowance of £130 ps. Ps. Allowance of £130 ps. Ps.

Application forms and fa-liver particulors from the formeastic Surveyay, Improve Vallenc, Landon 897721, as tylents complained application should be submitted by the January, 1978.

MANCHESTER

THE UNIVERSITY

ASSISTANT

ANTI TEXTINOLOGY

ANSISTANT

It call the fire worth within in the control of the con

Application form mar by checked from the Regulet Civilla, 1-11, 11er 18, 84th feeth of the Application of th

NEW CASTILL UPON TENE

THE PARTAIL NT OF SOCIAL

TOTAL PROGRAMMENT TOTAL PROGRAMMENT TOTAL PROGRAMMENT ASSOCIATE

Applications are invited from the and wearen for the above tree and wearen for the above tree in connection with a time of matriage convenient, and their ribonies. Applicate some including have held presented in minimizer and live analysis of quadrate due.

THE PRIVERSORY.

CHAR Of LAW

The Council of the Victoria
februity of volume on inviting
februity of volume on inviting
februity of volume on inviting
februity as Chale of Law,
westerned white he consistent
februity as Chale of Law,
westerned white he consistent
februity as Law,
februity as Law

NEW ZEALAND UNIVERSITY IN OTAGO ASSISTANT LECTURES IN

Legications are invited for a position of ABSBYA11T (CORELL IN the Guparment Russian Language and IRBATURE from February. The successful applicant will be a liuent command of som Russian as experience to the lenching of Russian as the lenching of Russian as the lenching of notions thus as unquest duties will induce the lenching of notion thus an experience of language because in language services in the lenching of language services in the lenching of language services in language language in language langu Puther particulars are avali-ria from the Association of Componential International April 25 Section 8 Seriam, Lodon W. 211 UP! or Iran es Requirer of the University Applications close on 31st Succeeding 1977.

> SOUTH AFITICA WITWATERSHAMO Johannasbury

COULGY

ECTUBLE

The Separation of Zorlogy sheling for a suitably qualified or and with will be 1-sayable for carreigness of the condomination of the condom

SURREY THE UNIVERSITY DOMESTIC BINGSAM

the analysis of quastone out grounds by meaning the vicinity of the state of the system work available of the system work available of the system work available of the system of the sy Applications one invited in Classics one invited in Classics one invited in Classics one invited in the control of the control 111 L3.66 (, 27.419, 23.44), C3.547, 23.761, 23.93, A.1.166 Turing details for the state in internal of Access to the state in the

THE DPEN UNIVERSITY

THE STREET WHEN THE PROPERTY OF THE PROPERTY IS A STREET OF THE PARTY. WALES THE UNIVEUSITY

> LECTURE Applications are invited for the cucane's of LECTION II in the CHEMILAL DEEMINGHAPHY IN THE OFFICE AND CHAPTER. The appointment, which will dale from April 1, 1978, will be made at the favor chi of the scale 23,333 to 26,655 per almun, romber will LS-D-S-D-S-D-B- termilla, Clesing date; Wednesday, December 21, 1977.

UNIVERSITY COLLEGE OF

ASSISTANT IN MEDICAL SOCIOLOGY

Applications are invited from accininglist, with pasigradunic research experience, for the spearance of Bender the starth Assuant in the Tellical Sactolagy Research Centio, An applications of the second Cention of the Sacred in the Lagrand Cention of the Sacred in the Lagrand Cention of the Sacred in the Lagrand Cention of the Sacred Cention of Cention of the Sacred Centi

ology of ormary madical rare.

The salery lee the Sanior Research Assistant will in his than a seal of \$2.312 to \$2.527 to \$2.

Futher particulars and op-plication forms tiwn copies for the above positions may be obtained from him Person-nel Officer, University College of Swanses, Stat 80%, in whom face should be courned by the above closing dates.

Contraction flestered tomples to

Fellowships and Studentships

> LUCY CAVENDISH COLLEGE, CAMBRIDGE

The state of the s

RESEARCH **FELLOWSHIPS**

Applications are invited for one or note Research Fallow-siding open to women. The College has a special interest in these returning to Scademic work siter an interest, or turning to II siler experience in einer Reide. The Follow will be seasond to undestake research in Cambridge. The size of the swend will depend on the qualitication and situation of the second spifers [18], but desend include free accommedent include free accommedent. Closing data les applications January 15, 1878.

BRADFORD APPLIED SOCIAL STUDILS HESEARCH ATUDENTHIP

Gandidelya with . 8 nood
Hanours Degree in Social
Administration . Social Psychology or Socialogy are invited to apply for a D.11 6.8.
Respects Signi-niship 1776.
Respects Signi-niship 1776.
Respects A Social Social Control
of Allows and Social Social Control
of Allows and Social Social Control
of lose.
Additional information and application losms can be desired from the Secretary. Behavior and Ameliod Section 1812, and the secretary of tradition, which was a small of the section and the made within two weeks of the date of this advertisement.

DXFORD ST. CATHERINE'S COLLEGE C.E.G.B. PERCAUCH FOLLOWSHIP IN APPLIED MATHEMATICS

tuether nationary may be noted in from the Marier state of the control and the

ST. JOHN'S COLLEGE

Junior Research Fellowship in Modern Languages

The College proposes, if there should be a soutable caronitate to elect to one density of the college proposes, if there should be a soutable caronitate to elect to one density of the College, having analysis to example the college to the college

Polytechnics

NEWCASTLE UPON TYNE POLYTECHNIC

Dapartment of Physics and Physical Electronics

RESEARCH ASSISTANT

A vecancy exists for a Research Assistant in the Acoustics Group. Acoustics is a major research eras in this Department and the Science Research Council has recently awarded a grent to support an investigation of the techniques for maniforing noise arising from industrial praintees.

The Research Assistant would work primerily in this stee of measurement and pradiction of the external noise levels associated with industrial premises, but would also from lime to time lake part in the general activities of the group related to iretfic noise.

Minimum qualifications are a degree, or equivalent, in science or engineering; the succeedul cendidate would be encouraged to work for a higher degree.

The Assisteniehip which offers a salery of £2,440 to £2,800, plue £312 end £132 per ennum selery supplements, is initially for a lixed period of two years.

For further particulars and application forms returnable by Friday, December 18, 1977, please gend etemped eddressed looiscap envelope to the Statling Officer, Newcastio upon Tyne Polylechnic, Ellison Building, Ellison Piace, Newcastie upon Tyne NE1 85T.

Faculty of Arts Department of Humenifles

LII Posts in Language Teaching

Three posts are sveliable in French, Cormen, and English as a Foreign Language, (Reignence S/AO A.) Department of Student Services, Division of Physical Education (Barking Precinci)

Head of Division—Principal Lecturer

A person of considerable assagmin and practical experience and achievement in the lief of Physical Education is assignt to serve as Head of the Otrision of Physical Education within the Polytachnic from April 1, 1978. The Ovision has a broad involvement in providing juiltion for physical oducation throughost the Polytechnic and also in providing a wide-tanging tecreation programme lot both students and stall. [Relatence S/AO 6.] Salary Scales: Lecturer 11: £3,279 to £5,493; Principal Lacturer : £5,940 to £7,578. (Plus appropriate Occurrent Supplement of up to a max of 2492 and appropriate London Attowance.)

The Banior Bisiting Officer [2] North-Basi London Polytachnito Forcet Road, London E17 4/B Telephona i 01-527 22/2 | asionalog 25) Closing dale December 18, 1877, North East London Polytechnic

Further details and application form from :---

THE POLYTECHNIC HUDDERSFIELD

Department of Catering Studies LECTURER II OR SENIOR LECTURER IN CATERING STUDIES Ref. ACA/179

A graduate ratery is sequence to teach practical and theoretical Customs Studies. The specialist actions are in lectuological and scenific areas of the Oscidons Calering Science and Applied Bulliano course, the DA Hiddlind Calering Administration and the HNO or Holef and Catering Administration.

Department of Building SENIOR LECTURER OR LECTURER II IN QUANTITY SURVEYING Ref. ACA/171

Candidates about to members of the BICS or IOS capable of fecturing in Lieuturoncot and Economics, Building Fectuality and Surveying to Higher Bollonal Cultificate and Optiona students.

Deperiment of Computer Studies and Mathamatica LECTURER II OR SENIOR LECTURER IN COMPUTING AND INFORMATION SYSTEMS Ref. ACA/172

Candidoles should have appropriate practical experience of systems design/analysis of confluior-based information systems A 9200 honours degree and/or MBCS is oscielled. The new OA(Home) Computing in Business degree course similar in September, 1977.

Department of Merketing Studios. LECTURER II OR SENIOR LECTURER Ref. ACA/173

linnous ginducios eta invitod to apply to foin o stali el markeling agociatista who tanch on riggine teauson in Tobillo Markeling, Mar-keling (Enginecitus) and Bushiosa Studies os well as ing Olpicina in Markeling Studies.

School of Architoclure

PRINCIPAL LECTURER, SENIOR LECTURER OR LECTURER II IN ARCHITECTURE Ref. ACA/176

Applications are invited from woll-qualified architects for a feath-ing post in the School of Architecture. The successful candidate will give full leading in Ossign and will also its responsible for leading in other wase of the Degree and Olpioms courses. Good practical experience is essential,

Division of Life Sciences

SENIOR LECTURER IN CHIROPODY Ref. ACA/177

The successful candidate will be responsible to the Head of the Objeton for the organisation and administration of the new School of Chiropody which will become operational in September, 1970. Applicants should possess both Chiropodial Islate Registrations and Teaching qualifications. December experience of working in a School of Chiropody is obsented.

Department of Further Education Staff Development PRINCIPAL LECTURER OR SENIOR LECTURER IN METHODS OF TEACHING MANAGEMENT SUBJECTS AND EDUCATIONAL MANAGEMENT Ref. ACA/178

Applications are invited from graduates, preferobly with a higher degree, who are qualified teachers with experience in further oducation. The leaching programme of the person appointed will include:

(1) Listhede of feaching courses in Management Subjects 30 pre-service and in-service student's courses. (2) The Managament of Education module in the Diplorea in FE and on specialist short courses.

Experience of lesching on Mester's courses end of supervising tesserch will be important additional qualifications. A principal tecturation is swillable for a suitable applicant. Stelf are expected to undertake octivities including tosearch, in addition to teaching studies.

Department of Geography and Geology RESEARCH ASSISTANT Ref. ACA/179

Applications are invited from condidates with good honours degrees is Geography or other relevant disciplines to carry out tesserch into the impact of Higher Education Establishments upon the urban labric of Britein. A knowledge of location analysis or experience in this field would be desirable.

For the Dean of Hesearch RESEARCH-ASSISTANT IN EDUCATIONAL ADMINISTRATION Ref. ACA/175

To work on a study of the ourself tesources and thencing of Polytechnics and their needs related to possible action and modes of future development. Applicants from any discipline would be considered but summers to essential; knowledge of the higher education system would be

Selery: PL £5,432-£7,134 (9er)-£8,970 per onnum inclinding salary AL E5.523-E6.447 (Ger)-E6.909 per ennum including celary

ausplements.

LII 23,744-28,888 pet annum including selery supplements.

Resourch Assistent Gurnham Goele (Lectus: 1 point 0)
22,013 pet annem including selery supplements.

Further details and application forms, which should be returned by 16th December, 1977, from the Esteblishment Office, The Potylechnic, Quesnegate, Hudderstietg HD1 3DH (Telephona 0484 22288, Ext. 2228).

Assistant Hall Managers

£3,695-£4,073 p.a. inc.

Two posta assisting hell menegera with the efficient running of the Polytechnic's halls Trent Park, Cockfosiers (e.g. MHOIMA) and have some especiones of

THE POLYTECHNIO DEPARTMENT OF LIT'S L STATISTICS (WITH O.R. ANO/OR MATHEMATICS) COMPUTATION)

LIVERPDOL.

Salary scales: £3.744 le Salary scales: KS.744 hopfication ferms and further particulars are available from the Personnel Uffice Liverpool Polyrechnic, Richmond Irane, 1 Rumfort Place, Liverpool LS 978, 181, 181, 051-227, 5381. Ext. 45 referents LP 1926,703. Closing date is fourtonn days from the appoprants of this solventionical.

Applications are invited for the post of 1 ECCURER in the Depart-tient of Library and Information Studies. The detica will be primerly concepted with cashing arrengements in attitude with laboration. There will also be opportualties for teaching and research, and for participation in the admist-station of the Opportunity.

Salary within scale £3,333-£6,655 (mider verker). It is hoped in appoint within the lower half of file Scale. Posteard request for Inather details and application forms to Paul Julinon, Establishment Officer, Ref.; 77,40LS. Louiditacough Letcosterabtre

LOUGHBOROUGH UNIVERSITY OF

LIBRARY AND

INFORMATION STUDIES

TECHNOLOGY

DURHAM THE UNIVERSITY GEOLOUICAL SCIENCES

Applications are invited for the post of EXPERIMENTAL OFFICER to work to the Geo

(one hom oversons untididates) nataing three veloces, alread be sent by 31 Occomber, 1877, to the Ragistrat, University of York. Hastington, York, Yor 500, Itoni whom further parti-

EXETER THE PARTERSOR

8.8 D.C. DESI ARCH ASSISTANTS P.P.

Applications are invited for a post of flevourch Assistant in the Department of Footischev. The pust is available for some as possible able for January 1, 1978, and is tended for two years. The six yestill applicant will work make the superstand in Dr. 19, 19. Kelling a geological product at "Allas vision at Dr. 19, 19. Which and the post of the pust of the post of the pust o Apidicants should be oradinated with aspectance of workfor with authorities of worked on with authorities sourced on tandlarity with rotanite rechinings would be an advantage.

Apidically with the state of the period to Suprender the transfer of the period to Suprender the transfer of the state of the

post is amperaminable.
Luriner details may be obballed from Mys Pairors (ga200, Aductishinally Assistant
Cappalpitionist University of
Pyolor National Luring
Cyclet Ext (Gl., believe
adult for sont by Pescenter
12, 1977, Please quela cleroncy mandred 1 by 71-50.

HONGKONG THE BRITCHSHY UNIVERSITY HEALTH SPRING DEPUTY DIRECTOR PRIVALIAN

Applications are invited for a part at the level of either 19,301V (1000); and or 191Y. St. JAN in the University licelih Service. Apolyants for the tool of physician level should be are died in the for a registration with the best of the form o

isiti-so, and committee that the first property threats from the small property threats the small problem to the s

of 100 University.
Annual Bollaries 15 progannual blog at C: 16 party Direcannual blog at C: 16 party Direcannual blog at C: 16 party Direcannual blog 12 party blog 17 party blog 10 party blog 10 party blog 12 party blog 11 party blog 12 party bl qualifications and experience.

Further Bartirulate and
night-align furum may be give
stained from the Association
of Consisonwealth Fulverables
(Consisonwealth Fulverables
Jamils 1., A6 bunden Buster,
Jamils Will/ 1117, nt the
Association for the fully
some fully fully of florikenn, Honokane,
Limbokane,
Limbokane,
Limbokane,

Hone is T January, 1978, HULL

> THE UNIVERSITY OUPARTMENT OF GEOLORY CHAIR OF INDUSTRIAL Applications are invited for a newly-astabilished CHAIR of INDESTINATION WITH INC. THAIR of INDESTINATION WITH INC. THAIR OF THE APPLICATION OF A PROPERTY OF THE APPLICATION OF THE APP

the helder of the chair will be responsible for organisms

LONDON THE UNIVERSITY MATHEMATICS AT KINU'S

Assistant's Ospantiainn Assistant in the post of Abrillais (Native). It is not only to the post of Abrillais (Native). It is not of the post of Abrillais and the post of the

Application a sea individual of a peak at it it it is a peak at it

U.S.A. DUKE PRIVEITALLY OSPANISHENT OF

photos applications for Trill to applications of the System of Sys

The College presents to siret a C.F.G.B. Research Follow in Applied Visibergards. From Personal Total College of three of February 1 1478 The Febr The College's latinities is to smaller a confider profide profide profide profide profide profide profidence is a confidence to profidence to the L.E.G. U.

ol residence at Wood Green, North London Tresidential) (18. 84.4.16) Inci-residential) [rel: 45.146] Inci-residential) [rel: 45.146] Inci-residential) [rel: 45.146] Inci-residential problem in the comparable post, preferribly within higher advertion, and have some experience of management in a comparable post, preferribly within higher advertion, and have some experience of management in a comparable post and some interested in the post in the post and continued in the post in the post

Middlesex Polytechnic

Applications are invited front Graduates in Englished white research or other experience for the above post. The successful candidate will be superted to participate in the Shallsment and fo develop schilled to contain a special series. In a successful applied a reda. Experience of a principal content will be advantage in manufacture of a principal content will be advantageous.

NEWCASTLE UPON TYNE POLYTECHNIC

Department of Fine Art

Applications are invited for the poet of Lecturer in Bronia, ten-able from April 1, 1970, or se abon as possible therestion. Candidates should normally be trained and experienced toachers who are graduates with appropriate quelifications and should be able to after a combinelian of practical and readening ability. A substantial contribution will be expected to Grade in Toacher Education Courses, as well as invalences in the tenching of the GALHous! Combined Studies: Creative Aris. Surnhum FE Lacturer Grade it. 23,278 to 25,493, pine 312 and up to £190 per ansum salary applements.

For further positiculars and application forms returnable by Friday, Docember 18, 1977, places and slamped addressed toolscap envalues to the Galifing Officer, Hawcastla upon Tyna Polylachnic, Ellison Galiding, Silled Piece, Newcastla upon Tyna Polylachnic,

LECTURER IL SENIOR LECTURER

£3,279 to £5,955 (bar) to £8,417 supplements of £485 to £492 per annum

Sheffield City Polytechnic Library

SUBJECT LIBRARIAN Business and Management Bainry Scola : Lacturar II 13,744-19,385

The outcossiul condidate will loss part of a lasm of subject libratisms lavelved in fice promotion of library services to the Facolities of Sector Studies, Hunanities on Susinces and Management

Management,
The post involves listed and students in the Guelness and Management Faculty,
Lasching on user education programmas, information work, stack
management and nesocioled
duties. Applicante, who should
normally be greatually qualities
libratians, should praintebly have
lod experience of hautling ond
nepoliting business and namagement information.

Department of Management Studies LECTURER II in Productions/ Operations Management

Salery Scale: 23,744-t5,888
The successful condidate will be laquited to teach Production/Operation Management on a number of Post-graduals and Past-experience Management courses including the O.M.S. and Master's level courses. The person appointed will also be aspected to canificute to the development at new courses and to the oxisting research work to the Production/Operations Management etc.

iho Productian/Operellons Man-agomani erea.

Applicasis shautd pretarably hold s higher deguag and/or have rele-vant axpartance is like Produc-ilon/Operallons ... hisaagomoal

aras.

Requests for an opplication term in writing only, please, to the Poraceael Operatment. Shelliola C-ty Polytpchnie 10ept THESt: Hallords House, Filestan Equary. Shellield S1 286, to whom complicied is may always be relumed by Detember 18th, 1977.

THE POLYTECHNIC ORMANIMENT OF SLECTIFICAL AND INSTRUMENTATION AND CONTROL ENUMEERING Applications are invited for the following post:

LECTURER OF MICH io john the Electronic Engin-oring and Colonidar Technol-ory Group, which he primarily responded for the deprets of l.Bt. Honours) in Computer tychnology.

Sality State: Locurer I/ Genior Localume: £3.744-£5.525 tefficioncy bary-£5.447 (work bar)-£5.509 Appointment will be made within the lower port of the trate.

The Address of the Control

Application forms and fur-tion periculare are available from Signing Carlion, Tere-side Polytechnic, Borough Hond Middlestrough, Cleve-land SI 5HA, 21d are relum-able whim 14 days

LECTURER IN DRAMA

IN BUILDING TECHNOLOGY

Cadidales should hald other o depres or diploma in Building sad/or corporate mamborship at an appropriate protessing an appropriate protessing and form at opplication obtainable from the Chief Administrative Officer, Troni Polytachia, Surfos Sirad, Notlingham NOI 4BU, A self-addrassed toolscap envelops with sesial with the bar 12, 1877.

TRENT-POLYTECHNIC NOTTINGHAM

BRISTOL THE POLYTECHNIC OFFARTMENT OF PERMANIC AND SECTAL SCHOOL D.CTUDER GRADE ID OFNIGHT LECTROFF (1941)
THOSE OF ASSIGNATION
LECTROPHES GRAPH 11/84
HARTMAN - 2 PUSES RE
INOUSTHAL SOCIOLOGY

Applicants should have a one home to should have a control of the home to should be some formal of the property of the home to the home to the property of the home to the The state of the s

> POLYTECHNIC OF THE SOCIAL BANK LECTURGIUS) GHADE I H

BARING TLUINGLOUY Thef. 1.571 Ofessiverfluorens (Resolvertisments)

Jo leach theory and practical espects of a wide solute of antifers of the control with table of the control of the con

THE POLYTECHNIC

HIGHARY AND LEARNING RESOURCES OCHVICE SITE LINGATION, Margato, L.A. L'bracton II 125,257 in Coulton in Landon Weighting and Phase II supplement following an internal propirment.

Joliuwing an internal propolion, nucleations are invited
from chark red librarians les
the show past at uno of
suan. Polytectain uno of
suan Polytectain uno of
an internal suanties
al Butiness Stuties, in addition
to twing responsible for the
provision of an officient and
officient library survice at the
stig. The nucleostif sometime Will olso be expected to axturned responsibility for one of the major subject areas of the piperary. Application forms and fur-or details are evaluable from: 10 Astistion, Secretary, City 10 Landon Polytochaic, 177-170 Landon Polytochaic, 177-170 Landon Polytochaic, 177-170 Landon Polytochaic Decamber, 1077.

Classified Advertisements Ta advertise in the THES should John Ladbrook 01-837 1234 THE TIMES Higher Education SUPPLEMENT New Printing House Square, P.O. Bon 7, Grar's too Road, Loadon WCIX SEZ

 $\frac{\partial u_{i}}{\partial x_{i}} = \frac{\partial u_{i}}{\partial x_{i}}$

extered problement

Lecturer-Senior Lecturer in Law |Sulury E.t. 744-(bar)-E6,906)

The successful applicant will be expected to under-take some teaching in the proposed law field on the

Department of Management & Rusiness Similes

Lecturer-Senior Lecturer in Law |Sulary £3,744-(tiar)-£6,909(

A special interes; in commercial or industrial law would be useful.

Applications, including a corriculum ritae, sluting the particular fields of interest, and the names and addresses of three referees should be sent by the 30 December 1977 to the appropriate Head of Department, Oxford Pulytechale, Oxford OX3 OBP, from whom further details and application forms may be obtained.

Colleges of Further Education

THE QUEEN'S COLLEGE, GLASGOW 1 Park Drive, Glasgow G3 6LP

HEAD OF DEPARTMENT **PHYSIOTHERAPY**

Salary: £8,692 per annum (including supplements awarded under Parts and 2 of the Pay Policy).

Further details and forms of application may be obtained from the Principal, to whom completed forms should be returned by Tuesday, January 10,

LOOKING FOR A JOB IN LIVERPOOL P

The National Association of Tanchere in Further and Higher Education is in dispute with the Liverpool Educa-ion Authority over conditions of service in further educa-

NATFHE members considering teking an FE job in Liver-pool are elrongly edvised to contact NATFHE first. Write to Negotleting Secretory, NATFHE, Hemilton House, Mabledon Placs, London WC1H 8SH.

Librarians

College of Librarianship Wales

SENIOR LECTURERS/LECTURERS

To leach in the fields of REFERENCE end INFORMA-TION SERVICES and SUSJECT SISLIDGRAPHY, in the Depertment of Sibliographicel Studies To teach INFORMATION RETRIEVAL including CLASSIFICATION and CATALOGUING, in the Depart-

ment of information Systems Studies. There will be opportunities to isocia at all levels on the following

Grammes:
University of Wales Joint Hosours Dogres of Sacksler of
Librartanship.
University of Wales Postgradusis Diplome in Librarienship.
Professional Studies Programme for Library Association sessuingilona (CLW Svilabus). Professional Studies Programme for Library Association seaming-lions (CLW Syllabus).
Successful applicants will also aunerviso research students working for the University of Wales Degree of Master at Librarianship of the Fellowship of the Library Association. Stall sta siso encouraged to pursuo their own research Interests.

is their own research interests.

Lacinror II. 23,279-55,493 (plus Phesa 2 supplement).
Sanior Lecturar, 150,01-56,417 [plus Phese 2 supplement).
Glarling point according to qualifications and experience.
datella should be obtained from the Registrar, Octobe of Interest Weles, Aberyslwyth 6723 3A9, Yal. Aberyslwyth

Colleges and Institutes of Technology continued

COISTE GHAIRM OIDEACHAIS RHAILE THRAIN TOWN OF TRALEE VOCATIONAL

EDUCATION COMMITTEE TRALEE REGIONAL TECHNICAL COLLEGE

PRINCIPAL

Applications are invited from suitably qualified (serous of Page 1) and position of Page 1) Traise Regional Technical College.

OUALIFICATIONS:

(1) The Degree of a recognized University or an apple equiveloni qualitication: in the case of Arts, Compa or Science, a Degree will First or Second Class Rea or equivalent qualitication is required.

(2) Not less than five yours' experience in tasset dustry, business, education or other relevant states a combinolion of two nr more of these edities, states activities at quent to obtaining the above mentioned qualificators are destrable that the experience should include that all the appropriate level.

(3) A knowledge of Irish of the stendard of the Teestas Gasilge of the Department of Education. SALARY SCALE :

The position carries a seven-point selery set to £7,059 to £6,176.

Children's allowancos wilt be peid where epproper Application forms and further information may be to tained from the Committee's Oilles, Moyderval, 1422 Completed application forms should be returned to the state of the sta understoned not later than the 19th December, 1977

J. Felvey, Chief Exocutive Oilicor.

DUNDEE COLLEGE OF TECHNOLOG

Arising from the retirn in June, 1978, of the prex hend, applications are invited for the post of:—

Head of Department of Mathematics & **Computer Studies**

The department is responsible for the leading of mailtennation, numerical samples, similations and complete obtains in the subal adminimist growing range of degree of diploma crosses, provided by the college. The personal appointment may be obtained for a professorable and experience of the personal professorable and professorable and professorable obtained in the content of the professorable and professo Irini mid/or inquirich experience, logether with e pro-record of mannourful ninity. The edaty is £3,102 p

Further particulars and application form ebidinal from the Principel, Dundoe College of Technology, Br Street, Dundoe DD1 1HG, to whom completed applicate forms should be refurned by December 30, 1977.

PAISLEY COLLEGE BIOLOGY DEPARTMENT

Temporary Lecturer

pplicants for this two-year eppointment from 18 April students. Ability to organise labotatory and project

Selery scele—Lecturer "A "—£3,528 to £6,807 plus £6

aupplement.
Application forms end further details are evaluable from Establishment Section. Palsiey College of Technicold High Street. Parsloy PAI 2SE. (Tol. No. 041867-1241). Please quote rel. 11/1. Closing dete for reining of completed forms Decomber 20 Informel enquirios may be made to Prolessor Smith ext. 250.

LOTHIAN REGIONAL COUNCIL.

NAMED UDITION OF COMMINCE & TECHNOLOGY ACTUSTION OF CENT In combight and supervise an accommodation arrefer for aludealy at the Codlego.

Amilicants simple have a degree for requirement of continue in the continue of the continue of

Holidays and Accommodation POTYYS

WILSON'S SCHOOL BULDLES GENTS orate or equivalent qualities in the area of Hussian Management, and entitlement in the area of Hussian Management, and entitlement in the area of Hussian Management in the m

Colleges and Institutes of Higher Education

FAF NATIONAL INSTITUTE FOR HIGHER EDUCATION, LIMERICA

INDUSTRIAL RELATIONS: LECTURER

to the sward of honours and soneral degrees and notional diplomes to Business Studios. Suoceraful graduales in the personnel specialise ton racelys exemption from IPM paris 1 and 2 requirement

The person appointed will probably be a momber of the IPM and should have spent a number of years in industrial relations. Experience of teaching mature slutionis will be an adventage, as also will seemely special tolorous in two or more of the following stees; legal aspects of industrial relations, labour sconomics, industrial relations in the EEC and ludustrial relations procedure.

SALARY: 15,850-17,498

Plus £100 ps/marrings and £70 pa/child sllowances logether with

taplication resiertal evallable from the Personnel Office, The Relignal institute for Higher Education, Limerick, to be completed and returned

LONDON

Ealing College of Higher Education

TEMPORARY LECTURER II IN SOCIOLOGY

(3 years)

start in January, 1978, rate date to be arranged from the secondment of Dr lan Jemieson to life Schools' Council Industry project for three years. ther deletie and application from Chief Administration Officer (TD/UC). Ealing College of Higher Education, St. Mary's Road. Lendon W5 5RF. Tel: 01-138 Higher College College of Higher Education, St. Mary's Road. 579 41tt Ext. 272. Ctoeing lete 9th Oecember.



The school is about to subinit a U.A. degree it Library
Studies to CNAA and teaches
the fellowing courses—Parts for the fellowing courses—Parts for the Course is added in the Course in the Course is added in the Course in the Course is added in the Course in the Course in the Course is added in the Course in the Cours

Selecy: Ourshom Hoad of Ooparimoni Aslary scale will apply: £7.65tu to £8.62d p.o. inclusive of London Weighting and Salary supplements.

Full details from The Chief Administrative Officer 17D/UI:1. Letting College of Higher Education, 81. Mory's Hood, London Will Clasing date, Oceanber 12, 1977.

EALING EOUCATION GENVICE

BALING COLLEGE OF

HIGHER EDUCATION

LICAO OF SCHOOL OF LICANTANSHIP (Drado IVI

Applications are Invited from librarians with substantial librarianship degree leaching, professional Ultury experience and proven manageries shifty lar the above post which becomes vacant upon the reliretions of the present Read,

Research Posts

NATIONAL FOUNDATION FOR EDUCATIONAL RESEARCH IN ENGLAND AND WALES



UNIFIED VOCATIONAL PREPARATION PROJECT

Research Officer

A third person is needed to join an existing team which is evaluating the Government's experimental programme of schemes of Unitled Vocational Preperstion. This programme which ta run jointly by the education departments and the Trainting Services Agency is intended to develop and teat new forms of provision for young people aged 16-18 who enter jobs where they teceive little or no systematic training or turther education. The NFER availation will consider the UVP schemes in varying degrees of depth and will seak to determine their impact on employers and employees and the extent to which they are meeting the perceived needs of both groups. The veriad experimental programme cells for a tlexible and responsive approach in evaluation and the auccessiut cendidate is likely to have a combination of the following:— A third person is needed to join en existing teem which

(1) A degree, preferebly in the acciel eclences, of a training or personnel management quellitication.

12) Experience of research in a releted area.

13) Experience in industriel training, commerce, or thirther commerce.

turther education. Although the post is besed in Slough, the research should be prepared to travel axtensively throughout the country. secondment would be considered. Selary ecale 23,975 to 25,015, plecement on acale

ording to quelificationa and experience. For application forms and further perilculare apply: P. P. Harrie, Group Personnel Officer, National

Foundation for Educational Research in England and Wales. The Mars. Uplon Perk. Slough, Berkshire. Closing date for completed application forms: December 19, 1977.

Research **Assistants**

History of the British Coal-mining Industry

Applications are invited from holders of higher degrees of persons with equivolent experience for posts as Research Assistants to work on a comprehensive history of the Bullish Coel-mining industry, aponsored by the National Coel Board. The enthers of the inistery will be Professors M. W. Films, R. A. Cliurch and S. B. Seul; they will be responsible for the preparetion of volumes dealing respectively with the 18th, 19th and 20th centuries. One Rescerci Assistant will be work-

Appointments will be initially for a two-year period, with the possibility of extension for a further year, tenable from January, 1878 or as acon as possible thereafter. Salary will be

Professor Flinn'e Research Aeeleteni will be besoil initially in the Newcastle Area, the others at the Board'e Headquoitors in

Applications, with a curriculum vitan and an indication of the research period which is not groups interest, and giving the names of two scademic relates, should be suit to the

Headquarters Steff Managor, Notloivel Coal Boord, Hobort House, Grosvenor Place, London SW1X 7AE,

General Vacancies

IIEA INNER LONDON EDUCATION AUTIFORITY

Inspectors of **Multi-Ethnic Education**

Salary scale: £7,868.80-£8,669.80 (inclinative of London Weighting and Pheess 1 and 2

Required as soon as possible three inspectors to form pert of a learn of five. The learn's remit covers the whole field of multi-ethelic education at all stages from pro-school to education. The new inspectors will contribute to this eduit educellon. The new inspectors will contribute to the work, aspecielly in innguage development, lectuding accond lenguege learning, curriculum development, echool end college organication, in-service ireining and in echool-community relatione. Applicants should have aubstantial teaching experience and knowledge of the needs of multi-ethnic community in any sector of the education

> Outails and application forms from the Education Officer (EO/Estab 2A/1) Room 367, County Hall, London, S.E.1. 7P8. Please exclose a stamped eddressed foolscap anyelope. Fermis to be returned by 19th December 1977.

COMPANY OF THE STREET OF THE STREET

CRAFTS ADVISORY COMMITTEE

RESEARCH ASSISTANT

The Crafts Advisory Committee requires as educational b assistant to service its working party on the crafts in educadou. The working party will be considering the teching of the crafts et secondary, terdary and postgraduete level and the stotus of apprentices in independent workabops.

The research assistant will be required to collect informetion and statistics and to tolerview a wide range of individuels lavoived with the crafts lo education. Some irevolting witt be lovotved. He/she will be expected to produce e short paper on a particular aspect of the subject for each of the working party's meetings.

The appointment is for six months, commancing in Jenuary. Applicants should be graduates with some appropriate postgraduate research experience. A fee of £1,900 with be paid, together with certain egreed expanses,

Please apply immediately with a telter setting out qualificecloss and experience to: the Deputy Secretary, The Crafts Advisory Committee, 12 Waterloo Piece, London SW1Y LONDON, W.C.1

OISTRICT EDUCATION OFFI-

Courses

BURBARIES IN OFFSHORE STRUCTURES

SOUTHAMPTON THE UNIVERSITY CEPARTMENT OF EDUCATION COURSES IN A OVANCEO STUDY IN EQUICATION, 2870-79

Applications are invited from exertenced TEACHERS, LECTURERS and ADVISERS for the following rourses starting in September, 1978:— M.A.(Ed.) | Pull-lime, one CURRICULUM STUDIES, LOUCATIONAL, RESEARCH M.Sc. 1Ed.) [Pull-time, one year]. GEGORAPHICAL EOUGA-

CILEMICAL BOUCATION, BIOLOGICAL EDUCATION, PILYBICS EQUCATION, M.A. (E4.) (Part-Moa, Iluco Mr.Phil. and Ph.O. (Pull-time Olphonis is Advanced Educa-lices Sindles (Full-lime, Ono year). The Education of Edacation Further information and injulication forms from the form of the fo

OXFORD TOU. DRIVE HOLLY in Association with Theory, Lady Maryan Chall, Color Densir Herbook and St. Hogb's Colores

C. P. AJDIADAM DESIADOR PLEIZONSIDES 1979 Applications are period to Frink 19.5-AREAL LLATENCE SHIPS. Inside from 1 belocare. 1979, each to be belocare. 1979, each to be belocared from 10.5 Member 1980 with a lumber Research & tellowships at one at the above religiest. The belowships will be peaker for your years, possibly requested for a left of a year and the latence of the

Applicants must have a dec-orate for interference to be a submitted that do notal thestal by Detolog 1. 1970, and men not have had more than three years' positivitarial research experience before that data. Scale of altipends: US, 306 to 20,177.

ing to nursuo mode il, be logical or chemical research.

Application forms and fur-form the Security of Facul-les of the Application of the Jewish P. Abraham Research of the Application of the Calculation of the Applica-tions of the Application of the Calculation of the Applica-tions: 13 January, 1778.

NUSUARCH ASSISTANT To sixvitop aumarical andels of apparated fluws from a villa of such to study the control of the control of such to su

Loters of application stoling igo, qualifications and experience for foodbar will, the names and addresses of two referees whould he son! to the House that the control of the control of

Personal

t'OSTALOANS UNSECURED R50 to £1,500 RICHMOND INVESTMENTS LTD. 4 The Grove, Richarded, Surry, OF 940 9813

For

further selection appointments

Please

see **PAGE** 2

Ē, C. -8

